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Dewey Decimal Classification
1876-1976

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5	12th ed. (1927) – 2 volumes

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THIS REEL CONTAINS:

1st ed. (reprint of 1876) –
5th ed. (1894)

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Dewey, Melvil

Classification and subject index for cataloguing...

[Lake Placid? N.Y.]

Facsim. reprint of 1876 ed

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the books and pamphlets of a library ¶
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the books and pamphlets of a library. ¶
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▶  14  650  0  Classification, Dewey decimal. ¶
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CLASSIFICATION
AND
SUBJECT INDEX
FOR
LIBRARY

DEWEY DECIMAL CLASSIFICATION

CENTENNIAL 1876–1976

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A

CLASSIFICATION

AND

SUBJECT INDEX

FOR

CATALOGUING AND ARRANGING

THE

BOOKS AND PAMPHLETS

OF A

LIBRARY.

AMHERST, MASS.
1876.

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PREFACE.

The plan of the following Classification and Index was developed early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamphlets, and in over fifty personal visits to various American libraries. In this study, the author became convinced that the usefulness of these libraries might be greatly increased without additional expenditure. Three years practical use of the system here explained, leads him to believe that it will accomplish this result; for with its aid, the catalogues, shelf lists, indexes, and cross-references essential to this increased usefulness, can be made more economically than by any other method which he has been able to find. The system was devised for cataloguing and indexing purposes, but it was found on trial to be equally valuable for numbering and arranging books and pamphlets on the shelves.

The library is first divided into nine special libraries which are called Classes. These Classes are Philosophy, Theology, &c., and are numbered with the nine digits. Thus Class 9 is the Library of History; Class 7, the Library of Fine Art; Class 2, the Library of Theology. These special libraries or Classes are then considered independently, and each one is separated again into nine special Divisions of the main subject. These Divisions are numbered from 1 to 9 as were the Classes. Thus 59 is the 9th Division (Zoology) of the 5th Class (Natural Science). A final division is then made by separating each of these Divisions into nine Sections which are numbered in the same way, with the nine digits. Thus 513 is the 3d Section (Geometry) of the 1st Division (Mathematics) of the 5th Class (Natural Science). This number, giving Class, Division, and Section, is called the Classification or Class Number, and is applied to every book or pamphlet belonging to the library. All the Geometries are thus numbered 513, all the Mineralogies 549, and so throughout the library, all the books on any given subject bear the number of that subject in the scheme. Where a 0 occurs in a class number, it has its normal zero power. Thus, a book numbered 510, is Class 5, Division 1, but *no* Section. This signifies that the book treats of the Division 51 (Mathematics) in general, and is not limited to any one Section, as is the Geometry, marked 513. If marked 500, it would indicate a treatise on Science in general, limited to *no* Division. A zero occurring in the first place would in the same way show that the book is limited to *no* Class. The classification is mainly made

by subjects or content regardless of *form;* but it is found practically useful to make an additional distinction in these general treatises, according to the form of treatment adopted. Thus, in Science we have a large number of books treating of Science in general, and so having a 0 for the Division number. These books are then divided into Sections, as are those of the other Classes according to the form they have taken on. We have the Philosophy and History of Science, Scientific Compends, Dictionaries, Essays, Periodicals, Societies, Education, and Travels,—all having the common subject, NATURAL SCIENCE, but treating it in these varied forms. These form distinctions are introduced here because the number of general works is large, and the numerals allow of this division, without extra labor for the numbers from 501 to 509 would otherwise be unused. They apply *only* to the general treatises, which, without them, would have a class number ending with two zeros. A Dictionary of Mathematics is 510, not 503, for every book is assigned to the *most specific head that will contain it*, so that 503 is limited to Dictionaries or Cyclopedias of Science *in general.* In the same way a General Cyclopedia or Periodical treats of no one class, and so is assigned to the Class 0. These books treating of no special class, but general in their character, are divided into Cyclopedias, Periodicals, etc. No difficulty is found in following the arithmetical law and omitting the initial zero, so these numbers are printed 31, 32, etc., instead of 031, 032, etc.

The selection and arrangement of the thousand headings of the classification cannot be explained in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preserved in books, has been appreciated from the first, and nothing of the kind attempted. Theoretical harmony and exactness has been repeatedly sacrificed to the practical requirements of the library or to the convenience of the department in the college. As in every scheme, many minor subjects have been put under general heads to which they do not strictly belong. In some cases these headings have been printed in a distinctive type, e. g., 429 Anglo-Saxon, under ENGLISH PHILOLOGY. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternative was to omit them altogether. If any such omission occurs, it is unintentional and will be supplied as soon as discovered. Wherever practicable the heads have been so arranged that each subject is preceded and followed by the most nearly allied subjects and thus the greatest convenience is secured both in the catalogues and on the shelves. Theoretically, the division of every subject into just nine heads is absurd. Practically, it is desirable that the classification be as minute as possible without the use of additional figures, and the decimal principle on which our scheme hinges allows nine divisions as readily as a less number. This principle has proved wholly satisfactory in practice though it appears to destroy proper co-ordination in some places. It has seemed best in our library to use uniformly three figures in the class number. This enables us

to classify certain subjects very minutely, giving, for example, an entire section to Chess. But the History of England has only one section, as our scheme is developed, and thus the two might be said to be co-ordinated. The apparent difficulty in such cases is entirely obviated by the use of a fourth figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history where the classification is made wholly by countries, a fourth figure is added to give a division into *periods.* As the addition of each figure gives a ten-fold division, any desired degree of minuteness may be secured in the classing of special subjects. The apparent lack of co-ordination arises from the fact that only the first three figures of these more important heads are as yet printed, the fourth figure and the sub-sections being supplied on the catalogues in manuscript. Should the growth of any of these sub-sections warrant it, a fifth figure will be added, for the scheme admits of expansion without limit.

The arrangement of headings has been sometimes modified to secure a mnemonic aid in numbering and finding books without the Index. For instance, the scheme is so arranged that China has always the number 1. In Ancient History, it has the first section, 931: in Modern History, under Asia, it has 951: in Philology, the Chinese language appears as 491. After the same manner the Indian number is 2 ; Egyptian, 4 ; English, 2 ; German, 3 ; French, 4 ; Italian, 5; Spanish, 6; European, 4 ; Asian, 5 ; African, 6 ; North American, 7 ; South American, 8 ; and so for all the divisions by languages or countries. The Italian 5, for instance, will be noticed in 35, 55, 450, 755, 850, and 945. This mnemonic principle is specially prominent in Philology and Literature and their divisions, and in the *form* distinctions used in the first 9 sections of each class. Materials, Methods, or Theory occurring anywhere as a head, bears always the number 1. Dictionaries and Cyclopedias, 3; Essays, 4; Periodicals, 5; Associations, Institutions, and Societies, 6; Education, 7; Collections, 9. In the numerous cases where several minor heads have been grouped together under the head Other, it always bears the number 9. Wherever practicable, this principle is carried out in sub-dividing the sections. For instance, the Geology of North America, which bears the number 557 is sub-divided by adding the *sections* of 970 (History of North America). The Geology of Mexico then bears the number 5578: mnemonically, the first 5 is the Science number ; the second 5, Geology ; the 7, North America ; and the 8, Mexico. Any library attendant or reader after using the scheme a short time will recognize at a glance, any catalogue or ledger entry, book or pamphlet, marked 5578 as something on the Geology of Mexico. Users of the scheme will notice this mnemonic principle in several hundred places in the classification, and will find it of great practical utility in numbering and finding books without the aid of Catalogue or Index, and in determining the character of any book simply from its call number as recorded on the book, on all its catalogue and cross reference cards, on the ledger, and in the check box.

In naming the headings, brevity has been secured in many cases at the sacrifice of exactness. It was thought more important to have short, familiar titles

for the headings than that the names given should express with fullness and exactness the character of all books catalogued under them. Many subjects, apparently omitted, will be found in the Index, assigned, with allied subjects, to a heading which bears the name of the most important only. Reference to this Subject Index will decide at once any doubtful points.

In arranging books in the classification, as in filling out the scheme, practical usefulness has been esteemed the most important thing. The effort has been to put each book under the subject to the student of which it would be most useful. The content or the real subject of which a book treats, and not the form or the accidental wording of the title, determines its place. Following this rule, a Philosophy of Art is put with Art, not with Philosophy; a History of Mathematics, with Mathematics, not with History; for the philosophy and history are simply the *form* which these books have taken. The true content or subject is Art, and Mathematics, and to the student of these subjects they are most useful. The predominant tendency or obvious purpose of the book, usually decides its class number at once; still many books treat of two or more different subjects, and in such cases it is assigned to the place where it will be most useful, and underneath the class number are written the numbers of any other subjects on which it also treats. These *Cross References* are given both on the plate and the subject card as well as on the cross reference card. If a book treats of a majority of the sections of any division, it is given the Division number instead of the most important Section number with cross references.

Collected works, libraries, etc., are either kept together and assigned like individual books to the most specific head that will contain them; or assigned to the most prominent of the various subjects on which they treat with cross references from the others; or are separated and the parts classed as independent works. Translations are classed with their originals.

The Alphabetical Subject Index is designed to guide, both in numbering and in finding the books. In numbering, the most specific head that will contain the book having been determined, reference to that head in the Index will give the class number to which it should be assigned. In finding books on any given subject, reference to the Index will give the number under which they are to be sought on the shelves, in the Shelf Catalogue, or in the Subject Catalogue. The Index gives after each subject the number of the class to which it is assigned. Most names of countries, towns, animals, plants, minerals, diseases, &c., have been omitted, the aim being to furnish an Index of Subjects on which books are written, and not a Gazetteer or a Dictionary of all the nouns in the language. Such subjects will be found as special chapters or sections of books on the subjects given in the Index. The names of individual subjects of biographies will be found in the Class List of Biography. Omissions of any of the more general subjects will be supplied when brought to notice.

In arranging the books on the shelves, the absolute location by shelf and book number is wholly abandoned, the relative location by class and book number

being one of the most valuable features of the plan. The class number serves also as the location number and the shelf number in common use is entirely dispensed with. Accompanying the class number is the *book* number, which prevents confusion of different books on the same subject. Thus the first Geometry catalogued is marked 513·1 ; the second 513·2, and so on to any extent, the last number showing how many books the library has on that subject. The books of each section are all together, and arranged by book numbers, and these sections are also arranged in simple numerical order throughout the library. The call number 513·11 signifies not the 11th book on shelf 513; or alcove 5, range 1, shelf 3, as in most libraries, but signifies the 11th book in subject 513 or the 11th Geometry belonging to the library. In finding the book, the printed numbers on the backs are followed, the upper being the class and the lower the book number. The class is found in its numerical order among the classes as the shelf is found in the ordinary system: the book in its numerical order in the class. The shelves are not numbered, as the increase of different departments, the opening of new rooms, and any arrangement of classes to bring the books most circulated nearest to the delivery desk, will bring different class numbers on a given shelf. New books as received are numbered and put into place, in the same way that new titles are added to the card catalogue.

The single digit occasionally prefixed to the book number, e. g. the 3 in 421·3·7 is the nearest height in decimeters of books too large to be put on the regular library shelves, which are only 2½ decimeters apart. The great mass of the library consists of 2-decimeter books, the size numbers of which are omitted. Books from 2½ to 3½ decimeters in height have 3 prefixed to the book number, and are found on the bottom shelf of each range. The larger sizes are prefixed with 4, 5, &c., and are found on the special shelves provided, in order to avoid the great waste of space otherwise occasioned by the relative location. By this use of the size numbers a close economy of space is secured.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought, found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followed by other allied subjects as far as practicable. Readers not having access to the shelves find the short titles arranged in the same order on the Shelf Catalogue, and the full titles, imprints, cross references, notes, &c., on the Subject Catalogue. The uncatalogued pamphlets treating of any subject bear the same class number and are arranged on the shelves immediately after the books of each section.

In both the Authors' Catalogue and the Subject Index, brevity has been studied because of the economy, but more because of the much greater ease of reference to a short title catalogue. The custom of giving full titles, etc., under authors, and only references or very brief titles under subjects, has been reversed. A reader seeking a book of a *known author*, in the vast majority of cases, wants simply the number by which to call for it, and can find it much sooner in a brief

title catalogue. In the rare cases where more is needed the class number refers instantly to all these facts on the cards. On the other hand, a reader seeking books on a *known subject*, needs the full title, imprint, cross-references, and notes, to enable him to choose the book best suited to his wants.

The Subject Catalogue is a full title Shelf List on cards and is for the use of the public. The Shelf List is a short title Subject Catalogue in book form, made of separate sheets laced into an Emerson binder, and is for official use. We thus have without extra labor, both full and short title Subject Catalogues and Shelf Lists. The public Authors' Catalogue is a printed volume ; the official Authors' Catalogue or Index is on cards. As a result each of the public Catalogues is checked by an official Catalogue; each of the card Catalogues by a book Catalogue; each of the brief title catalogues by a full title catalogue—an advantage that will be appreciated by all librarians desiring accuracy of administration and catalogues.

The Arabic numerals can be written and found more quickly, and with less danger of confusion or mistake, than any other symbols whatever. Therefore the Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification are entirely discarded and by the exclusive use of Arabic numerals in their regular order throughout the shelves, classifications, indexes, catalogues and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written in calling for or charging books and in making references.

Throughout the catalogues the number of a book shows not only *where* it is but *what* it is. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and the minutest statistics of circulation in any subject are made by simply counting the call slips in the check box, and recording the number against the class number in the record.

By the use of size numbers the greatest possible economy of space may be secured, for the size distinction may be made for every inch or even less if desired, and this without additional labor, as it will be seen that the size figure, when introduced, requires one less figure in the book number, and so does not increase the number of digits as would at first appear.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and re-catalogued. The great expense of this re-cataloguing makes it impracticable except for a few very wealthy libraries. In this system the catalogue and book numbers remain unchanged through all changes of shelving, buildings, or arrangement. In addition to its own peculiar merits, this plan has all the advantages of the card catalogue principle and of the relative location, which have been used and very strongly approved by prominent libraries.

As in the card catalogue system, there is room for indefinite expansion without

devices or provisions. Space is the only requisite and if the shelf room is exhausted, the floor space is equally good, except for the inconvenience of stooping.

Some prominent opponents of classed catalogues have admitted that the Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more cheaply or more easy of reference, it being a single alphabet, of single words, followed by single numbers.

These class numbers applied to pamphlets have proved specially satisfactory. The number is written on the upper left corner and the pamphlets are arranged either in pamphlet cases with the books on the same subject or on special shelves divided every decimeter by perpendicular sections. As each pamphlet is examined when received into the library, it is the work of a single moment to pencil on it its class number. There is no expense whatever incurred, and yet the entire pamphlet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian caring for a pamphlet collection. A catalogue of authors may be made on slips if desired. The pamphlets themselves are the best Subject Catalogue.

Though designed wholly for library use, the plan has proved of great service in preserving newspaper clippings in large envelopes arranged by class numbers; and more especially in taking the place of the common note-book and Index Rerum. Slips of uniform size are used with the class number of the subject written on the corner. Minute alphabetical headings are used under each class number, the slips being arranged in numerical order like the Subject Card Catalogue. Clippings and notes arranged in this way are at all times their own complete index, and have the same advantages over the common scrap and note-books that the Subject Catalogue has over the Accessions Book, in looking up the resources of the library on any given subject. Those who have tried this method are so enthusiastic in its praise that it seemed worthy of mention in this place.

The plan was adopted in the Amherst College Library in 1873, and the work of transferring the entire library to the new catalogue at once commenced. It was found entirely practicable to make the change gradually, as means allowed, without interfering in any appreciable degree with the circulation of the books. The three years trial to which it has been there subjected has more than justified the claims of its friends, and it is now printed with the more confidence on this account. It has been kept in manuscript up to this time, in order that the many minor details might be subjected to actual trial and modified where improvement was possible. The labor involved in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been rendered by specialists in many departments, and nearly every member of the Faculty has given advice from time to time. Among the many to whom thanks are due, special mention should be made of

Mr. C. A. Cutter, the librarian of the Boston Athenæum, and Mr. John Fiske, of the Harvard University library, for valuable suggestions and appreciative criticism. While these friends are in no way responsible for any remaining imperfections in the scheme, they should have credit for many improvements which have been made during these three years of revision. The essential character of the plan has remained unchanged from the first. Doubtless other improvements are still possible, and it is hoped that users of the scheme will call attention to any proposed change in the naming or arrangement of the headings, or to any omission which should be supplied in the Subject Index.

Before printing, the plan was submitted to quite a number of librarians for criticism. Among the hundreds of points raised as to its practical workings and usefulness there was only one in which it was not shown to be equal or superior to any other system known. This objection applied only to the arrangement on the shelves; not at all to the catalogues or indexes. It was, that in this relative location, a book which this year stands, e. g., at the end of a certain shelf, may not be on that shelf at all another year, because of the uneven growth of the parts of the library. This slight objection inheres in any system where the books are arranged by *subjects* rather than by windows, doors, shelves, and similar non-intellectual distinctions.

In this hurriedly prepared account of his plan, the author has doubtless failed to meet many objections which may be raised and which he could easily answer. He would therefore ask the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

In his varied reading, correspondence, and conversation on the subject, the author doubtless received suggestions and gained ideas which it is now impossible for him to acknowledge. Perhaps the most fruitful source of ideas was the *Nuovo Sistema di Catalogo Bibliografico Generale* of Natale Battezzati, of Milan. Certainly he is indebted to this system adopted by the Italian publishers in 1871, though he has copied nothing from it. The plan of the St. Louis Public School Library, and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential features were decided upon, though not given to the public. In filling the nine classes of the scheme the inverted Baconian arrangement of the St. Louis Library has been followed. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so. With these general explanations and acknowledgments he submits the scheme, hoping it may prove as useful to others as it has to himself.

Amherst College Library,
June 10th, 1876.

Those interested will find fuller explanations and remarks in the Library volume now being printed by the Bureau of Education at Washington.

PHILOSOPHY,

THEOLOGY,

SOCIOLOGY,

PHILOLOGY,

NATURAL SCIENCE,

USEFUL ARTS,

FINE ARTS,

LITERATURE,

HISTORY.

DIVISIONS.

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Names in **full face type** are the ruling headings under which the books are entered in the various catalogues. Entries not beginning with this type are in addition to the first or main entry, and are made under the names of *translators, editors, commentators, continuators*, etc., as participators in the authorship; also in the case of books having more than one author, or having both generic and specific titles, or published by societies or other bodies, and having also the name of the individual author. These additional entries are made in order to carry out the plan of the Authors' Catalogue, which aims to give under each author's name all his works which the library contains.

The works of an author known by more than one name are given all together, under the form of name chosen. Any other name or title by which he may be known, if it differs in the first three letters, is entered in its alphabetical place, followed by the word *see* and the name under which the books are entered. Such cross references have no titles given under them, but are simply guides to the name chosen.

A single dash indicates the omission of the preceding heading; a subsequent dash indicates the omission of a subordinate heading or of a title. A dash connecting numbers signifies *to and including;* following a number it signifies *continuation*. A ? following a word or entry signifies *probably*. Brackets enclose words added to titles or changed in form.

The German diphthongs ä, ö, ü are written, ae, oe, ue.

Dates are all given in years of the common calendar, and Arabic numerals are niformly used for all numbers.

SUBJECT CATALOGUE.

The Subject Catalogue on large cards can be used to advantage only with the aid of the *Classification* or *Index*. To find what the library has on any given subject, get from the Index the class number of that subject. Under this number in the Subject Catalogue will be found the full titles of the books, with imprints, cross references, and notes. The class number, by which the cards are arranged, is given in the upper left corner and immediately under it is the book number. Any other class number given in the left hand margin refers to another subject of which the book also treats. When the class number at the top is followed by an additional figure in brackets, the subject as given in the printed scheme has been subdivided in arranging the cards. This subdivision will be found on the first card of the catalogue which bears this class number. These figures in brackets determine the arrangement of the titles in the Catalogue, but on the shelves, in the Shelf Catalogue, and in calling for and charging books, they are entirely disregarded. Thus a book numbered 942(7)·14 would be in the Catalogue among the 942 cards arranged by the figure in brackets as though it were a decimal, but it would be called for as 942·14, the brackets indicating that the final classing was limited to the Catalogue and was not extended to the shelves. If a fourth figure is added without brackets, the final classing is extended to the shelves as well as to the catalogue, and all the figures must be used in calling for the book. In such cases the added figure is treated as a decimal in the arrangement, though the decimal point is not written.

The last card which bears any class number, gives under that number, followed by the word See, the call numbers of other books which treat of the same subject, but are classed elsewhere. General cross references are also made in many cases without specifying individual books, as from *Commerce* as a question of Social Science (380) to *Commerce* as a Useful Art, Book-keeping Business Manuals, etc. (650). In such cases there is a card under 380 marked see 650, and under 650 there is a card marked see 380. From whatever stand-point a subject is approached, the cross references guide at once to the same subject treated in its other relations. These cross references both general and specific are often accompanied by brief notes, characterizing the books to which reference is made.

There will be found at the beginning of many class numbers, a card noting the

most reliable books on that subject, and the best of the articles in periodicals, transactions, and collected works with the volume and page where they may be found. It is hoped to give special prominence to these notes for the guidance of readers, and they will be added as rapidly as other duties allow.

Many subjects will have no sub-section cards at the beginning; some will have no reference cards at the end; and some may have no titles given under the number. The scheme provides a place for books on all subjects, whether the library has them or not, so where no titles are given under a class number it shows that the library has as yet no books on that subject.

Articles in periodicals and transactions, separate volumes of sets and collections which are located together, *if catalogued* are put under their proper subject number, but no *book number* is given with it. The call number of the book, where they may be found, is always given in the margin preceded by the word In. In the same way special chapters in books will sometimes be catalogued, *e. g.* a card marked 338 in 331–27, would mean that in the 27 books on 331, *Capital and Labor*, there was a chapter on 338, *Production.*

Dewey, Melvil

Decimal classification and relativ index... 2d ed.

Boston

1885

BIBLIOGRAPHIC RECORD TARGET

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OCLC:  3967762              Rec stat:    n
Entered:    19780612        Replaced:    19940115       Used:    19980126
▶ Type:  a     ELvl:  I     Srce:        Audn:        Ctrl:        Lang:  eng
BLvl:  m       Form:        Conf:  0     Biog:        MRec:        Ctry:  mau
               Cont:        GPub:        Fict:  0     Indx:  1
Desc:          Ills:        Fest:  0     DtSt:  s     Dates: 1885,     ¶
▶   1  010     05-42 ¶
▶   2  040     DLC ≠c AKR ¶
▶   3  050 0   Z696 ≠b .D512 ¶
▶   4  090     ≠b  ¶
▶   5  049     PR1A ¶
▶   6  100 1   Dewey, Melvil, ≠d 1851-1931. ¶
▶   7  245 00  Decimal classification and relativ index for arranging,
cataloging, and indexing public and private libraries and for pamflets,
clippings, notes, scrap books, index rerums, etc. ¶
▶   8  250     2d ed., ≠b rev. and greatly enl. ¶
▶   9  260     Boston, ≠b Library bureau, ≠c 1885. ¶
▶  10  300     66, [162], 403-486 p. ≠c 24 cm. ¶
▶  11  650  0  Classification, Decimal. ¶
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DECIMAL CLASSIFICATION

AND

RELATIV INDEX

FOR ARRANGING

CATALOGING AND INDEXING

PUBLIC AND PRIVATE LIBRARIES

AND FOR

PAMFLETS, CLIPPINGS, NOTES, SCRAP BOOKS, INDEX RERUMS, ETC.

Second Edition, Revised and Greatly Enlarged.

BY MELVIL DEWEY, A.M.

Professor of Library Economy and Chief Librarian of Columbia College; Consulting Librarian of Wellesley College; Secretary American Library Association; late of Amherst College Library, and Editor Library Journal, etc., etc.

BOSTON
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PUBLISHERS' NOTE.

In 1873 the system described in the following pages was devised and put in operation in the Amherst College Library of 30,000 volumes. In 1876 it was printed with the preface reproduced in this edition. In the same year the United States Special Report on Libraries described it on pages 623–648.

Very soon individuals and libraries began adopting the system, and it spred quietly and without advocates exccpt as its value was reported after trial, till it came to be more widely used than any other. The record of those adopting it has only just been commenced, and at prescnt is very fragmcntary.

For ten years this system has been subjccted to the most trying tcst,—actual use for all the various purposes for which it was designed.

We hear of it as helping greatly some school-boy in keeping his notes, and next as in use by the president of some Royal Scientific Society; or simplifying the work of the smallest village or school library, and next as adopted, and after trial much liked, in thc National Library of a foreign country.

It has been used by the ignorant and the lerned, by the most painstaking and accurate scholars, by hurried men of business, and in all places has proved itself easily adapted for various wants. In short, ten years' experience has more than confirmed the great hopes of its usefulness exprest on its publication; and the calls for the new and enlarged edition hav been accompanied by many unsolicited and enthusiastic testimonies. It seems destined to be of the greatest service as a labor-saving tool to a rapidly increasing body of users.

This work, which has been brought to its present state by great labor, extending thru several years, is a gift to the public. In turning it over to the publishcrs, the author stipulated that no charge should bc made to any person or institution for using it; and that the total receipts from the sale of the book, above actual expenditures, should be used wholly in the interests of users of the system, in providing needed accessories, enlarged or added special indexes, charts, shelf labels, guides for catalogs and readers, etc. No allowance is made for thc labor of the author or the hundreds of specialists who hav assisted in its preparation. This statement is made to show that whilc the systcm is copyrighted, and the right strictly maintained, it is wholly in the interests of the users, and not as a source of income to cither author or publishers.

Experience has proved that much confusion results from printing unauthorized editions with various changes. The numbers ar given a new meaning, and endlcss inquiries and explanations, corrcctions, ctc., arise from young catalogcrs accepting these changed numbers and try-

ing to reconcile them with the general index. While every person is at liberty to make all the changes he pleases in ms., it is found necessary to forbid all printing in violation of the copyright.

Libraries wishing to print the tables or index as a part of their catalogs, can always make satisfactory arrangements for so doing, as we wish to make the system as useful as possible; but unless carefully garded, literary tinkers, ready to "improve" in an hour the carefully digested work of years, will print in catalogs, reports, or pamflets, modifications, which ar widely scattered and accepted as correct copies, thus introducing confusion, and destroying all that uniformity which is so important a part of the scheme. This also prevents legitimate sales, without which it is impossible to provide many things of great value to the users of the system; e. g., printed cards for catalogs, indexes, labels for shelves, guide boards, etc. All these valuable co-operativ publications depend on the numbers retaining their authorized meaning. Permission to print any part of the system in its proper form and with proper acknowledgments, can always be had of the publishers.

No user's freedom will be needlessly hampered by the copyright. If the advantages of using the system in harmony with the large body who utilize each other's labors ar not convincing, permits will be given to print variations and changes, provided it is made clear, by using letters insted of numbers for the new heads, or some other satisfactory means, just what these changes ar. The publishers merely protect the large body of regular users against the printing and distribution of garbled editions, without proper indications of the variations made.

While willing to sacrifice their pecuniary interests whenever the wider usefulness of this rapidly growing system requires it, they cannot allow it to be both stolen and mutilated, to the confusion and annoyance of its friends.

This system has come into so wide use that co-operation long dreamed of, by which great savings in time and money and great gain in methods should be secured, but hitherto impossible from lack of harmony in systems in use, has become practicable and is fast becoming fact. For this a record of addresses is essential. In order to be able to send to each user notice of any helps, corrections or additions that will be of service to him, a register has been started giving for each user, as far as obtainable, Name; P. O. address; when adopted; for what use; if for books, how many vols; by whom recommended or how led to adopt; notes of any difficulties or suggestions for any improvements.

Users are urged to send these facts for this record. The advantages of knowing, e. g., all the clergy, physicians, teachers or engineers who are using it for notes, clippings, pamflets, private libraries, is only second to knowing the various classes of libraries that ar using it in any of its applications.

INTRODUCTION.

[To show the development of the system and how few changes the experience of hundreds of users in the past ten years has shown to be desirable, the prefatory matter of the first edition is reprinted as the Introduction to the second, with modifications and additions inserted in brackets.]

[The simplified spellings used ar strongly recommended for general adoption by both the American and English Philological Associations, including nearly all the prominent scholars in English now living. The author greatly regrets the prejudice that certain readers will feel against these changes, but after giving careful study to all the objections urged against them, he finds the entire weight of scholarship and reason in their favor, and feels compelled in good conscience to bear a share of the prejudice which some must endure before the great benefits of a rational orthografy can be secured.]

ORIGIN.—The plan of the following Classification and Index was developt erly in 1873. It was the result of several months' study of Library Economy as found in some hundreds of books and pamflets, and in over fifty personal visits to various American libraries. In this study, the author became convinced that the usefulness of these libraries might be greatly increast without additional expenditure.

[He found it impossible to get more than a fraction of the good possible from a library without catalogs, indexes and aids to tell librarians and readers what the collection contained on any given subject. By any of the methods then used this could be done satisfactorily only at a cost so great as to be prohibitiv to all but a few welthy libraries. With rare exceptions the libraries were all growing rapidly. The catalogs, etc., prepared at great cost, were antiquated almost as soon as finisht. All the methods involved frequent re-markings, re-arrangements, and re-making of catalogs and indexes as the only escape from a confusion that seriously crippled the usefulness of the library. In this repetition of the work the experience and skill of previous librarians was largely lost. The problem was to invent a system which should enable each librarian to stand on the shoulders of his predecessors and fully utilize their labors; which should make the work done to-day permanent, insted of something to be superseded within a few years and therefor not worth being done in the best way; which should afford the most perfect tools for doing all this, insted of leaving the young librarian not only to lern how to work but to make all his own tools.]

Three years' practical use of the system here explained leads him to believe that it will accomplish this result; for with its aid, the catalogs, shelf lists, indexes, and cross-references essential to this increast usefulness can be made better, faster and cheaper than by any other method which he has been able to find, and when done are vastly more permanent.

The system was devised for cataloging and indexing, but it was found on trial equally valuable for numbering and arranging books and pamflets on the shelves. [Twelve years' use has developt scores of other uses. For notes on some of these, see "Various Uses of the System," at the end of this Introduction, pp. 56–62.]

Practical utility and economy are the keynotes of the entire system, and no mere theoretical refinement has been allowed to modify the scheme if it would detract from its usefulness or add to its running expenses. It was chiefly necessary to invent[1] a SUBJECT INDEX that would index the books and pamflets on the shelves, the cards of a catalog, the clippings and notes of scrap-books and index rerums, the cross references to all these items, and indeed *any literary material in any form*, as redily as the ordinary index guides to the proper page of a bound book. Here, as elsewhere, it has been borne in mind that the simplest method is much the best, and this difficult problem has been solved by using no reference marks except the simplest symbols known to the human mind, the Arabic numerals, and their simplicity is further aided by most practical mnemonic devices.

After the SUBJECT INDEX, economy and simplicity called for some plan of consolidating the two sets of marks heretofor used; one to tell of what subjects books treat, and the other to tell where the book was to be found on the shelves. By the relativ location and the decimal class numbers we hav made our simple Arabic numbers tell of each book and pamflet, both what it is and where it is.

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1 Extended investigation shows that this most important feature of the system, the subject index on which all else hinges, has never before been used as here to index by a single reference the most diverse material. The relativ location had been used in a few cases, but not in the present combination with the subject index which gives it most of its value. The tables of classification, while getting many suggestions from other sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system hav not been found in erlier use, tho, since their invention in 1873, this as well as the subject index and other features hav been very frequently copied, often with, but oftener without, acknowledgment of their source or permission from author or publishers.

An essential part of the Subject Index is the table of classification, mapt out in logical order and skilfully arranged to show in no less than four ways, viz.: by size of type, face of type, indentation, and number of figures prefixt, the exact rank in the classification of the thousands of headings. An explanation of the construction of the tables will make clearer the nature and use of the Subject Index.]

TABLES OF CLASSES.—The library [considered for this purpose as containing all the books on all subjects] is first divided into nine special libraries which ar called Classes. These Classes ar Philosophy, Theology, etc., and ar numbered with the nine digits. Thus, Class 9 is the Library of History; Class 7, the Library of Fine Art; Class 2, the Library of Theology. These special libraries or Classes ar then considered independently, and each one is separated again into nine special Divisions of the main subject. These Divisions ar numbered from 1 to 9 as were the Classes. Thus 59 is the 9th Division (Zoology) of the 5th Class (Natural Science). A third division is then made by separating each of these Divisions into nine Sections which ar numbered in the same way, with the nine digits. Thus 513 is the 3d Section (Geometry) of the 1st Division (Mathematics) of the 5th Class (Natural Science). This number giving Class, Division, and Section is called the Classification or Class Number, and is applied to every book and pamflet belonging to the library. All the Geometries ar thus numbered 513, all the Mineralogies 549, and so thruout the library, all the books on any given subject bear the number of that subject in the scheme.

Where a 0 occurs in a class number, it has its normal zero power. Thus, a book numbered 510, is Class 5, Division 1, but *no* Section. This signifies that the book treats of the Division 51 (Mathematics) in general, and is not limited to any one Section, as is the Geometry, marked 513. If marked 500, it would indicate a treatise on Science in general, limited to *no* Division. A zero occurring in the first place would in the same way show that the book is limited to *no* Class, e. g. a general cyclopedia which treats of all nine classes.

FORM DISTINCTIONS.—The classification is mainly made by subjects or content regardless of *form*; but it is found practically useful to make an additional distinction in these general treatises, according to the form of treatment adopted. Thus, in Science we hav a large number of books treating of Science in general, and so having a 0 for the Division number. These books ar then divided into Sections, as ar those of the other Classes according to the form they hav taken on. We hav the Philosophy and History of Science, Scientific Compends,

Dictionaries, Essays, Periodicals, Societies, Education, and Travels,—all having the common subject, NATURAL SCIENCE, but treating it in these varied forms. These form distinctions ar introduced here because the number of general works is large, and the numerals allow of this division without extra labor, for the numbers from 501 to 509 would otherwise be unused. They apply *only* to the general treatises, which, without them, would hav a class number ending with two zeros.

[In the minute subdivisions of sections in the revised edition, this form distinction is often used to subdivide the general works on Divisions or even Sections, e. g.: Under 510, works on Mathematics in general ar divided by form into 510.3 Dictionaries of Mathematics, 510.4 Essays, 510.5 Periodicals, etc., just as the works on SCIENCE IN GENERAL were divided. This conforms to the rule of ending with two zeros; for if four figures ar used these books would be 510.0, tho, of course, the 0 after the decimal point could be omitted.

Note that form divisions always hav the same set of numbers, viz.: .1, Philosophy, Theories, etc ; .2, Compends, Outlines; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures, Letters, etc.; .5, Periodicals, Magazines, etc.; .6, Societies, Associations, Transactions, Reports, etc.; .7, Education, Study, Teaching, Training, etc.; .8, Polygraphy, Collections, etc.; .9, History. Thus a periodical on any subject has the subject number followed by 5. If the next place of numbers is assigned to subject subdivisions, then the main head really ends in 0, tho not printed at the end, e. g.; 780 Music; 780.5 Periodicals on Music; 636 Domestic Animals; 636.5 Poultry, i. e., being subdivided by subjects, the general head is really 636.0 (tho always printed 636), and Periodicals on Domestic Animals in general is 636.05, while a periodical on Poultry alone could be numbered 636.55, Exhibitions and Transactions of a Poultry Society 636.56, etc., if a special collection of books on the topic made so close division useful.]

A Dictionary of Mathematics is 510.3, not 503, for every book is assigned to the *most specific head that will contain it*, so that 503 is limited to Dictionaries or Cyclopedias of Science *in general*. In the same way a General Cyclopedia or Periodical treats of no one class, and so is assigned to the Class 0. These books treating of no special class, but general in their character, are divided into Cyclopedias, Periodicals, etc. No difficulty is found in following the arithmetical law and omitting the initial zero, so these numbers ar printed 31, 32, etc., insted of 031, 032, etc.

[Nearly all users of the system in the past ten years hav found it better not to omit the initial zero. The eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e.g., General Periodicals ar written 51 etc., insted of 051, etc. Then in classification it often happens that the first two figures ar obvious at a glance, but time must be taken to determine the third. It is convenient to write these first figures, but if the Mathematical book receives its first two figures 51, it is liable to be confused with the American General Periodicals if they ar written 51 insted of 051. This danger may be avoided largely by writing the decimal point after a blank (i. e. 51 .) to show that a figure is omitted, but it is better uniformly to *use the initial zero.* Another reason is that the one and two figure numbers 1–99, ar thus left available for special uses if they should be needed. On this special use, see "Practicable Variations," p. 53[4].]

CHOICE AND ARRANGEMENT OF HEADS.—The selection and arrangement of the thousand headings of the classification cannot be explained in detail for want of space. In all the work, philosophical theory and accuracy hav been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preserved in books, has been appreciated from the first, and theoretical harmony and exactness hav been repeatedly sacrificed to the practical requirements of the library or to the convenience of the department in the college.[1]

[Whenever books on the same subject come before the catalogers they will be assigned to the same place, and whenever any reader seeks any of these books, the INDEX will send him for them to that place. If this is done, all the important requirements of a good classification are filled. If it is not done, the system is a failure, for the only real test of any scheme is its helpfulness to the workers in the library.]

As in every scheme, many minor subjects hav been put under general heads to which they do not strictly belong. In some cases these headings hav been printed in a distinctiv type, e. g., 429 Anglo-Saxon, under ENGLISH PHILOLOGY. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it is unintentional and will be supplied as soon as discovered, the intention being to provide a place in the tables for every topic without exception.

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1 The rapidity with which the scheme has come into general use has led in this revision to the correction of these few special adaptations to the Amherst College Library, thus fitting the scheme, as well as possible, for the use of all libraries.

SEQUENCE OF ALLIED SUBJECTS.—Wherever practicable the heads hav been so arranged that each subject is preceded and followed by the most nearly allied subjects, and thus the greatest convenience is secured both in the catalogs and on the shelves. [e. g. Building (690) follows the Mechanic Trades (680) at the end of Useful Arts, and Architecture follows at the beginning of the Fine Arts.

The student of Biology (570) finds Paleontology or fossil life (560) before, and vegetable life or Botany (580) after, this followed in turn by animal life or Zoology (590), ending with mammals (599), while Useful Arts (600) begin with human anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru all the vegetable and animal kingdoms to the living man.]

CO-ORDINATION.—Theoretically, the division of every subject into just nine heads is absurd. Practically, it is desirable that the classification be as minute as possible without the use of additional figures, and the decimal principle on which our scheme hinges allows nine divisions as redily as a less number.

This principle has proved wholly satisfactory in practice, tho it appears to destroy proper co-ordination in some places. It has seemed best in our library to use uniformly three figures in the class number. This enables us to classify certain subjects very minutely, giving, for example, an entire section to Chess. But the History of England has only one section, as our scheme is developt, and thus the two might be said to be co-ordinated. The apparent difficulty in such cases is entirely obviated by the use of a fourth figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where the classification is made wholly by countries, a fourth figure is added to give a division into *periods*.[1] As the addition of each figure gives a tenfold division, any desired degree of minuteness may be secured in the classing of special subjects. The apparent lack of co-ordination arises from the fact that only the first three figures of these more important heads ar as yet printed, the fourth figure and the sub-sections being supplied on the catalogs in manuscript. Should the growth of any of these sub-sections warrant it, a fifth figure will be added, for the scheme admits of expansion without limit.

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1 As all history is by countries, and as minute geografical subdivisions ar needed for travels, guide books, and various other uses, the rule is adopted always to use a o before the period figure. The o shows that there is no further geografical division in that number, and that period division is there introduced. This allows the use of the same period division in various places, e. g.: 942.05 England in time of Tudors. 942.905 Wales under the Tudors. 942.--05 - - - - under Tudors.

[MINUTE CLASSIFICATION.—On the first publication in 1876, a common criticism was that 1,000 headings could never be successfully used however desirable so close classification might be. As soon, however, as actual experience demonstrated that it was as easy to use 1,000 heads with the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that those wishing may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, and this in the whole or any part of the classification, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest will serve to show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and to use in indexing periodicals, transactions of societies, etc., and in preserving notes.

No one has ever questioned the advantage of the closest classification if the user knows just what it is. If there ar only 10 books on a given topic, it is useful to hav them in groups among themselves, for otherwise they would hav only accidental order, which is of service to no one. The reader who wishes to hunt up a specific book should not go to the shelves, but can get its place quickest from the Author or Title-Catalog. If he wishes to find a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the resources of the library at the shelves, he will be *greatly helpt by the most minute classing*. A teacher showing his pupil the material on any subject, if there ar only 20 books, will be sure to put together those covering the same points if there ar even two. Should not the librarian much more group closely his greater collection, so that his readers may gain something of the advantages of an experienced guide?

Suggestions from specialists interested in other subjects to be yet minutely subdivided will be gratefully received, and from time to time added sheets with such minute heads for indexing purposes will be printed and sent to the users of the system asking them.

DECIMALISM.—We hav not sacrificed utility in order to force subjects on the decimal procrustean bed. *The decimals hav been used as servants, not as masters.* Whenever subjects hav been combined or separated in order to make nine heads, it has been from no necessity of the scheme, but because it seemed the most useful way, all things considered, e. g.: in many cases there were at first only three to seven heads insted of nine, but usually, during the three years of testing before publication,

it was found useful to divide some of these heads, and as it took no added space or labor there was absolutely no objection to it. On the other hand, there were cases where more than nine heads seemed more natural. By adding one decimal place any number up to one hundred is provided for, and in most cases this was done, but sometimes it was found preferable to put together two unimportant heads on a single number, thus saving an extra figure. In short, it is as easy and economical of space as in any system, to use exactly the number of heads wanted, anywhere from one to infinity, and the common occurrence of just 9 heads is no necessity of the system, but the result of practical experience which has proved that most useful. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top, and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there ar less than nine main topics, it is often convenient to use the extra spaces for divisions, and we thus keep separate, under the Old Testament, the Historical, Poetical, and Profetic books, and under the New Testament, the Gospels, Epistles, and Apocalypse. The spaces ar there, and it is convenient to use them, — a reason that experience proves a good answer to the charge of lack of co-ordination, tho the indentation and type in the tables make that charge baseless. Then in 280 having more than nine topics, we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, — just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much, and he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is a main element of strength. A railroad also has the fault that it is Procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is Procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal System ar dependent on its being Procrustean. Without it we should lose the great simplicity of the Relativ Index; many mnemonic correspondences; and useful o

to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on Procrustean 10, or else some other number equally Procrustean, and without the advantages of exact correspondence to our arithmetic, — e. g., our check-box of books issued, showing the books out in each class, division, and section clearly, and at a glance, and without extra labor; the decimal charts of the best books on various topics, with cross references, so that a single chart answers the questions of those studying, — e. g., by periods, by reading down the colums, and the questions of those studying, — e. g., by form or language or space, etc., by reading across the same colums. So illustrations might be largely multiplied. Experience compels us to accept the "Procrustean 10" as involving, like the railroad, some minor disadvantages, but inseparable from them, giving us tenfold gains.]

Mnemonics.—The arrangement of headings has been sometimes modified to secure a mnemonic aid in numbering and finding books without the Index. For instance, the scheme is so arranged that China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. After the same manner the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all the divisions by languages or countries. The Italian 5, for instance, will be noticed in 035, 055, 065, 450, 850, and 945. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in the *form* distinctions used in the first 9 sections of each class. Materials, Methods, or Theory occurring anywhere as a head, bears always the number 1; Dictionaries and Cyclopedias, 3; Essays, 4; Periodicals, 5; Associations, Institutions, and Societies, 6; Education, 7; Polygraphy or Collections, 8; History, 9. In the numerous cases where several minor heads hav been groupt together under the head Other, it always bears the number 9.

[Note, that while Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals ar 5, Asia is 5, Oratory is 5, etc. To limit 5 to Italian would hav been wasteful of numbering material, and the results would not hav justified the cost. The purpose is to giv practical aid to users of the system, and not to follow out a theory to a fanciful extent. A cataloger marking a German grammar, remembers that all Philology begins with 4, and as German is always 3

and grammar 5, he knows the number must be 435. Italian (5) poetry (1) is as plainly 851 with no danger of being mistaken for the "poetry of grammar" or the "theory of Asia," because the numbers also hav that meaning. This feature is an AID, not the regular method, and in all doubtful cases reference is made at once to indexes or tables. The suggested difficulties ar usually the creations of ingenious theorists and not the experience of practical librarians who ar using the plan.]

Wherever practicable, this principle is carried out in subdividing the sections. For instance, the Geology of South America which bears the number 557 is subdivided by adding the *sections* of 980 (History of South America). The Geology of Brazil then bears the number 558.1 : mnemonically, the first 5 is the Science number; the second 5, Geology; the 8, South America; and the 1, Brazil. Any library attendant or reader after using the scheme a short time will recognize at a glance, any catalog or leger entry, book or pamflet, markcd 558.1 as something on the Geology of Brazil. Users of thc scheme will notice this mnemonic principle in several hundred places in the classification, and will find it of great practical utility in numbering and finding books without the aid of Catalog or Index, and in determining the character of any book simply from its call number as recorded on the book, on all its catalog and cross reference cards, on the leger, and in the check box.

[As noted in regard to close subdivision, the wish to get mnemonic correspondence has never outweighed any claim of greater usefulness. In many cases the choice between numbers was hardly perceptible, e. g.: whether in Philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In all such cases where there was no good reason to the contrary the mnemonic numbers were given preference, and ten years has proved this the wisest course. Very great gain, beside the ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows the Philology or History numbers, and in thc tables, the note "Divided like 900" fully takes the place of reprinting all the History pages or their equivalent. This immense saving justifies the use of these numbers in some cases where a somewhat different order would seem more nearly fitted to the special case, — e. g., in following the numbers of 030, which are used in scores of other places, for 759, Schools of Painting, American painters are brought before their older brothers of Europe, and historical order is violated; but with rare exceptions it has seemed much better to follow

the usual "Procrustean" numbers. By so doing, any of these topics can be subdivided in the minutest way without further study, by simply applying the subdivisions from History or Language. A single illustration of the astonishing power this principle gives will suffice, tho there ar thousands that might be given: 016 is Bibliografy of Special Subjects, divided like the regular classification. Examination of the tables under the 928 will show that 016.9289551 redily translates itself to any user of the system into "Bibliografy of lives of Persian poets." While these ten figures might never be used, if a specialist wishes minute division, it is redy to his hand, conforms to the great index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would, of course, adopt a contraction for his long number, and use in full only the minute divisions. See Practical Variations, on p. 53[5], for such contractions.]

CATCH-TITLES.—In naming the headings, brevity has been secured in many cases at the sacrifice of exactness. It was thought more important to hav short familiar titles for the headings than that the names given should express with fulness and exactness the character of all books cataloged under them. Many subjects, apparently omitted, will be found in the Index, assigned, with allied subjects, to a heading which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

[In this edition, headings are given with much greater fulness in the final sub-sections, yet the above remark still holds good, and a careless user may mistake the author's meaning because of the brevity of the headings chosen.]

RELATIV INDEX.—The Alfabetical Subject Index is designed to guide, both in numbering and in finding the books. In numbering, the most specific head that will contain the book having been determined, reference to that head in the Index will give the class number to which it should be assigned. In finding books on any given subject, refcrence to the Index will give the number under which they ar to be sought on the shelves, in the Shelf Catalog, or in the Subject Catalog. The Index gives after each subject the number of the class to which it is assigned. Most names of countries, towns, animals, plants, minerals, diseases, etc., hav been omitted, the aim being to furnish an Index of Subjects on which books ar written, and not a Gazetteer or a Dictionary of all the nouns in the language. Such subjects will be found as special chapters or sections of books on the subjects given in the Index. The names of individual subjects of biografies will be found in the Class List of Biografy. Omissions of any of the more general subjects will be supplied when brought to notice.

[This SUBJECT INDEX is the most important feature of the system. Its list of subjects is the most complete that could be made by combining all the headings of all the leading catalogs and bibliografies, and adding to the list all that users of the system hav found omitted in ten years' experience. Even with this effort it is expected that new headings will constantly be added, and each new edition will contain all that hav been sent in. These, arranged in a single alfabet in single line entries, in the most convenient type and form of page known to printers, make the easiest possible list of subjects for consultation. The references ar all made by simple Arabic numerals with their ordinary arithmetical powers. As the human mind knows nothing simpler than 1, 2, 3, 4, 5, 6, 7, 8, etc., written in Arabic numerals; and after this nothing simpler than a, b, c, etc., in plain Roman type, it is believed that it is not possible to devise a more simple and effectiv index. A single illustration will show its utility. A reader wishing to know something of the Tariff, looks under T and at a glance finds 337 as its class number. This guides him to the shelves, to all the books and pamflets, to the shelf-catalog, to the subject-catalog on cards, to the index of books charged at the Loan Desk, and, in short, thruout the whole library 337 will lead him to anything bearing on his subject in simple numerical order. He need not turn to the tables to see that it means Class 3, Sociology; Division 3, Political Economy; Section 7, Protection and Free Trade; but the number alone is enuf to classify the book or to find it, whether he be cataloger or reader. If he had lookt under P for Protection, or under T for Taxes, or under F for Free Trade, or under D for Duties, or C for Customs, or I for Import, or E for Export, or under any word that could refer to his subject, his answer would hav been just as direct and simple, viz.: 337.]

This index allows a great portion of the work to be done in advance by experts, thus securing better and more uniform results than would be possible to the ordinary cataloger, and at the merest fraction of the cost. Each of these thousands of subjects has been carefully assigned its number, many of them after long consideration and consultation with experts. Even if the decision reacht were not the wisest possible, all practical purposes ar served, because, as each cataloger copies the number from the same Index, all books on that subject will be placed together, and as each reader gets his number from this same Index, it insures that every seeker will go directly to the place where the book was placed.

When new subjects come up and are interlined in the Index, the class number once decided insures that the cataloger will be uniform with himself in future work, a thing heretofor found impossible even by the most expert catalogers, and also that after his death or resignation his successor will be able to continue the work exactly as he has commenced it.

The greatest objection to a clast catalog has ever been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work and held his place for a long series of years, there was a certain degree of uniformity; but even then there was the danger of looking at the same book from different standpoints, thus causing confusion. This danger will be understood by any one who has ever attempted classification, and is not at all surprising when one considers how differently competent authorities often class the same subject. But, fortunately, practical usefulness does not require that this one's or that one's ideas be followed, but only requires that books of the same character be always put in the same place, and that there be some means of redily knowing where that place is. The Relativ Index was designed, and is found in use, to meet both these requirements. In making it, each subject difficult of classification is referred to a specialist, and the number of the class to which it is decided to assign it is given after it in the index. Whenever a book is cataloged, reference to this index decides at once what number to giv it. If the first number is wisely assigned, all the succeeding ones ar sure to be, for the class number was given once for all, and it is only necessary to refer to the index to find what that class number is; so it will be seen that a perfect uniformity in classing is secured, for tho any one familiar with the scheme will class most of the books without the aid of the index, it will be consulted in all doubtful cases. A new librarian is thus able to class in the same way that his predecessors clast. A clerk, if he only knows the subject of his book, by the use of the index can class just as the chief of the catalog department would class, and usually the difficulty is not in deciding what a book is about, but where to put it in the scheme. The index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. For instance, "railroads" in the index is followed by two numbers, 385 and 656. A book on railroads may be a treatise on the desirability of government ownership, control, etc.,

and then is clearly a question of social science; or it may be a practical hand-book for an employee, explaining the business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examine the subject. The 3 and 6 beginning the numbers indicate clearly the character of each section. If the significance of these figures were entirely disregarded no confusion would result, for on consulting either of the numbers in the catalog, in the scheme, or on the shelves, the difference will be clearly pointed out.

The writer is aware that a subject index to accompany the classification has been suggested, but he has seen none that at all answers the purpose. In a book catalog such an index could be made referring to the page on which a subject is clast, but it would be useless for a card catalog and unsatisfactory even for the printed volume. A subject index, referring all minor topics to their exact place in the scheme, as does ours, would be found expensiv in printing and inconvenient in use, were it not for our numerical principle, which secures at once economy and ease of reference. Where we hav only to print "Geometry, 513," such an index would hav to print, "Geometry, natural science, pure mathematics, geometry." This increases the bulk and expense of the index and so is objectionable; but the great objection is on the score of convenience; reference to a simple numerical arrangement being so much quicker and easier of comprehension by the public who use a library than involved alfabets and sub-alfabets with their ramifications. No individual is sufficiently lerned to wisely classify books on all subjects and sciences; but the botanist can assign all botanical subjects to the right number, the mathematician all the mathematical topics, and thus, by the aid of specialists, the index can in time be made reasonably accurate. Thus, the labor of classifying the books of a library is reduced to much narrower limits than ever before. Notice of any errors or omissions in this index will be gratefully received by the author.

It is plain that this index serves equally well for the reader who wishes to know where to seek for books on any subject.

Wherever a class number in the Index ends with 0 it shows that the subject is subdivided, e. g., Painting 550, Mathematics 510, Natural Science 500, etc., and by consulting the tables one may see the subheads. In the new Index all topics which are further divided ar printed in black-face type, thus making very clear the importance of turning back to the tables.

Not infrequently, a subject is followed by two or more numbers in the Index, e. g.: Telegraph 384, 654. One but little familiar with the scheme would know without looking back to the tables that the first was under Sociology and referred to the Telegraph as a factor in society, covering discussions of government control, connection with the Post-Office, etc., while under the Useful Arts 654 must mean Practical Telegraphy, discussions of instruments, alfabets, methods of duplicating, etc. The two kinds of books are entirely distinct, and it is practically more useful to put those treating it from the standpoint of social science, with Sociology.

In other cases it has been thot more useful to keep the books on the same subject together, tho treated from entirely different standpoints. A glance at the index tells either reader or classifier which plan has been adopted for each case. The new Index gives catch words indicating the place of the subject in the scheme, thus saving reference to the tables.

Relativ Location.—In arranging the books on the shelves, the absolute location by shelf and book number is wholly abandoned, the relativ location by class and book number being one of the most valuable features of the plan. The class number serves also as the location number, and the shelf number in common use is entirely dispenst with.[1] Accompanying the class number is the *book* number, which prevents confusion of different books on the same subject. Thus the first Geometry cataloged is marked 513.1; the second, 513.2, and so on to any extent, the last number showing how many books the library has on that subject. The books of each section ar all together, and arranged by book numbers, and these sections ar also arranged in simple numerical order thruout the library. The call number 513.11 signifies not the 11th book on shelf 513; or alcove 5, range 1, shelf 3, as in most libraries, but signifies the 11th book in subject 513 or the 11th Geometry belonging to the library. In finding the book, the printed numbers on the backs ar followed, the upper being the class and the lower the book number. The class is found in its numerical order among the classes as the shelf is found in the ordinary system; the book in its numerical order in the class. The shelves ar not numbered, as the increase of different departments, the opening of new rooms, and any arrangement of classes to bring the

1 The relativ location is rapidly superseding the old fixt location, and should be adopted on its own merits regardless of the classification used. The full explanation of advantages and methods, together with the various plans of book numbers, will be printed in the author's hand-book on shelf-systems, so is not repeated here.

books most circulated nearest to the delivery desk, will bring different class numbers on a given shelf. New books, as received, ar numbered and put into place, in the same way that new titles ar added to the card catalog.

As the cross-reference is itself the call-number, a reader having any one of the three (book, title, or cross-reference) can instantly find either of the others without the intervention of catalog or index. The call-number is given also on the accessions book, and on the back of the book. If the expense of gilding call-numbers is too great, the Van Everen printed numbers may be used till the book is rebound, when the call-number is gilded permanently on the back, for in this system the call-number remains the same thru all changes of buildings, arrangement, or catalogs.

The necessity of changes in the ordinary system, and the great difficulty of tracing all the cross-references, renders it quite impracticable to giv the call-numbers in all places where they ar needed. Even where given they must be written temporarily in pencil, in rediness for the changes that ar sure to come; for, if printed, a new catalog, with its attendant expense and confusion, becomes necessary as soon as the opening of new rooms, or removal to new quarters, or the growth of the library disarranges the books.

There is a single alternativ: to arrange the books regardless of subjects, and even then the numbers must be altered in nearly all changes of buildings or rooms. In our system the book is numbered once for all, and can change that number only by changing its subject-matter. Of course mistakes occur as in any system, but when found they ar as easily corrected as in any other plan. Certainly there is greater hope that the work will be done well when it is felt that it is not to be done over again in a few years at the longest.

Parts of sets, and books on the same or allied subjects, ar never separated as they ar sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and re-cataloged. The great expense of this re-cataloging makes it impracticable except for a few very welthy libraries. In this system the catalog and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement. In addition to its own peculiar merits, this plan has all the advantages of the card catalog principle and of the relativ location, which hav been used and very strongly approved by prominent libraries.

[Since the invention of the translation systems by which the author's name is represented by its initial with the rest of the name translated into numbers, (e. g. Freeman would be F 87,) most libraries prefer to arrange the books under each class number alfabetically by authors. This keeps all the works by the same author together, and in large classes enables one to find any book redily without consulting the catalog.

A third arrangement of the books under class numbers is chronologically by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates makes the numbering of the year more compact and satisfactory.[1]

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, the author uses the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates, and the old accession order plan as described above, in the Phœnix Library, which is no longer added to, and therefor the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice.]

Thus all the books on any given subject ar found standing together, and no additions or changes ever separate them. Not only ar all the books on the subject sought, found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followed by other allied subjects as far as practicable. Readers not having access to the shelves find the short titles arranged in the same order on the Shelf Catalog, and the full titles, imprints, cross references, notes, etc., on the Subject Catalog. The uncataloged pamflets treating of any subject bear the same class number and ar arranged on the shelves immediately after the books of each section, [or by many in exact place as if bound.]

For various methods of arranging pamflets, see various uses at the end.

Thus every specialist has his own special library. If he be a student of science in general, he is sent to class 5; if his department be zoology, his library is 59; if his specialty is shells, he finds all the

1 Full explanations of the best methods for both arrangements can be had of the publishers of this work.

works and references on that subject in library 594. Whether there be a specialist to watch it or not, every subject thus being a library by itself, shows at once resources and wants as no catalog can show them. A catalog cannot be made that can satisfactorily take the place of handling the books themselves. Of course this advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only ar admitted, close classification is of exceeding value. The desirability of such classing is never questioned, only the practicability. With our plan it is comparativly easy.

Another great advantage of this plan is the aid it affords the scheme of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the Opera, and the Library says to him, "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. We will put in it all that we now hav on that subject, and each year the total income of your endowment shall be spent on the best books obtainable on your subject. The name will appear on each book-plate and in the clast catalog, at the head of the collection and in a fitting label, or tablet over it on the shelves. There will be found every book, pamflet, newspaper clipping or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the Opera will be grateful for your foundation." In this way 782 is assigned to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library, as the second section of 780, the Roe Music Library. This suggests one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location with its definit number expressing just the ground covered, will be of the greatest service in working up this plan of special endowments.

Sizes on Shelves.— The single digit occasionally prefixed to the book number—e. g., the 3 in 421-3-7—is the nearest hight in decimeters of books too large to be put on the regular library shelves, which ar only 25 centimeters apart. The great mass of the library consists of 2-decimeter books, [i. e. books between 15 and 25 centimeters in hight,] the size numbers of which ar omitted. Books from 25 to 35 centimeters in hight have 3 prefixt to the book number, and ar

found on the bottom shelf of each range. The larger sizes ar prefixt with 4, 5, etc., and ar found on the special shelves provided, in order to avoid the great waste of space occasioned by locating very large books on the same shelves with small ones.

By the use of size numbers the greatest possible economy of space may be secured, for the size distinction may be made for every inch or even less if desired, and this without additional labor, as it will be seen that the size figure, when introduced, requires one less figure in the book number, and so may not increase the number of digits as would at first appear.

e. g., the last history of England may be 942.118, (118th book of regular size.) The next may be too large for the ordinary shelves, and insted of being numbered 942.119, takes the size number 3 and is 942–3–1 (1st book, size 3). Thus the book number starts anew with each size number, and in some cases even less figures ar used because of the size distinction.

But as the books can be put in only one place, the closer the classification is made by sizes or colors of bindings in order to make a fine appearance on the shelves, the less closely can it be made by subject matter; and it is much more important that books be groupt by their intellectual rather than by their physical distinctions. The desire to make handsome shelves is giving way to the desire to make useful shelves, as surely as the architect's library with its fine vistas of books is giving way to the librarian's library, where the books can be produced at the desk in less than one-half the time required in the more beautiful building.

In a popular library where very few books ar above ordinary size it is best to disregard the size number entirely. When a book is too large for the shelves, a wooden dummy costing five cents can be put in its place, with the location of the volume itself penciled on its side. The few large books will be in a very few classes; newspapers, cyclopædias, and atlases will include most of them, and a single dummy in each class points out the location of all the extra large books. The size number, however, causes no confusion and serves an excellent purpose in a library where there ar a great many large books. It should be written between the class and book numbers. The volume number is written as a sub-figure to the book number.

[Most libraries hav abandoned the close distinction of sizes. It is true that a little space is saved, but at far too great a cost. Every distinction of sizes makes a parallel classification. If the books ar groupt into five sizes, one must look in five places before he can be sure of having seen all the books. The best method is to ignore size if the book will go on the shelves, but if it is a physical impossibility to put it

on the shelves, a wood dummy is put in its place, and on the blank on its side is recorded plainly the larger shelf where it can be found.

The regular shelves should be fully 25cm. apart, so as to take all octavos and smaller books.]

ARABIC NUMERALS.—The Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols whatever. Therefor, the Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, ar entirely discarded, and by the exclusiv use of Arabic numerals in their regular order thruout the shelves, classifications, indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written in calling for or charging books and in making references.

Some prominent librarians admit the great superiority of the relativ location for college and society libraries, but urge with force that in the public library, where so many thousand volumes must be called for, found, and charged, the added labor and danger of confusion involved in giving the author's name insted of a book number make the system undesirable. But by substituting the book number for the author's name in the relativ location every numeral is used from 1 upward without limit, while in the absolute location, where the shelves hold only 25 to 40 volumes, the remaining numbers 60–75, which might be written with two digits, ar not used, and more figures ar necessary in the shelf number. The library records ar simply a mass of call numbers, constantly written and printed in catalogs, shelf lists, indexes, etc. A saving of a single figure in the book number is therefor a matter of importance.

[Any system of catalogs may be used with this scheme. The form oftenest adopted as best is outlined here for convenience of reference. See p. 48, Variations.]

CATALOGS.—In both the Author's Catalog and the Subject Index, brevity has been studied because of the economy, but more because of the much greater ease of reference to a short title catalog.

The custom of giving full titles, etc., under authors, and only references or very brief titles under subjects, has been reverst. A reader seeking a book of a *known author*, in the vast majority of cases wants simply the number by which to call for it, and can find it much quicker in a brief title catalog. In the rare cases where more is needed, the class number refers instantly to all these facts on the subject cards. On the other hand, the reader seeking books on a *known subject*, needs the full title, imprint, cross-references, and notes, to enable him to choose the book best suited to his wants.

[While it is as easy to use the dictionary catalog with this system as with any other, the conviction of the author grows with every year's added experience and study, that the common dictionary catalog is inferior to the clast, for nearly all practical purposes. The dictionary arrangement, however admirable for an index, if used in a catalog must give results very unsatisfactory to the student, or els very expensiv to the maker.]

The failure of the dictionary plan to meet the requirements of the scholar has been often pointed out. While it is most admirable for an index, there still exists much of the same need of a good subject catalog as at the first. No one questions the immense superiority of a satisfactory clast catalog. But the difficulties in the way both in making and using such a catalog hav been so great that there has been a growing feeling among practical librarians, that notwithstanding the great advantages of a good clast catalog, the idea must be abandoned as impracticable. Still, many eminent authorities hav ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliografy.

The subject index is really a skeleton of a dictionary catalog. Insted of giving the book titles under each head, the number refers to all those titles in a way so simple and direct that it will hardly be criticised. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemed the best. We hav given only very short headings in this index, but it is probable that one will be prepared, giving a brief indication in all doubtful cases of the standpoint taken in assigning the class number. We therefor claim to unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

The Subject Catalog is a full title Shelf List on cards and is for the use of the public. The Shelf List is a short title Subject Catalog in book form, made of separate sheets laced into an Emerson binder, and is for official use. [The L. B. Shelf Binder is now preferred.] We thus hav, without extra labor, both full and short title Subject Catalogs and Shelf Lists. The public Author's Catalog is a printed volume; the official Author's Catalog or Index is on cards. As a result, each of the public catalogs is checkt by an official catalog; each of the card catalogs by a book catalog; each of the brief title catalogs by a full title catalog; — an advantage that will be appreciated by all librarians desiring accuracy in administration and catalogs.

[If necessary to economize on the above system, the Author Index on cards may be made a public catalog, thus saving the expense of the printed catalog. If the Shelf List is made public it is a very useful tho brief Subject Catalog. The Author Index and Shelf List ar, however, necessities of the simplest system. The most useful class-lists of any subject may be made by simply printing the titles under its class number in the subject, or shelf catalog, according as full or brief titles ar wisht.]

Charging Systems.—Thruout the catalogs the number of a book shows not only *where* it is, but *what* it is. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and the minutest statistics of circulation in any subject ar made by simply counting the call slips in the check box, and recording the number against the class number in the record. Each box represents a division, and in large libraries this is subdivided. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance.

The claims of the system as in use with us may be summed up as follows: Compared with other systems it is less expensiv; more easily understood, remembered, and used; practical rather than theoretical; brief and familiar in its nomenclature; superior to all others in arranging pamflets, sale duplicates, and notes, and in indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded without limit and without confusion or waste of labor on both catalogs and shelves or in the catalogs alone; checks more thuroly and conveniently against mistakes; admits more redily numerous cross-references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

Some prominent opponents of clast catalogs hav admitted that the Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more cheaply or more easy of reference, it being a single alfabet, of single words, followed by single numbers.

The essential character of the plan has remained unchanged from the first. Doubtless other improvements ar still possible, and it is hoped that users of the scheme will call attention to any proposed change in the naming or arrangement of the headings, or to any omission which should be supplied in the Subject Index.

Before printing, the plan was submitted to quite a number of librarians for criticism. Among the hundreds of points raised as to its practical workings and usefulness there was only one in which it was not shown to be equal or superior to any other system known. This objection applied only to the arrangement on the shelves; not at all to the catalogs or indexes. It was, that in this relativ location, a book which this year stands, e. g., at the end of a certain shelf, may not be on that shelf at all another year, because of the uneven growth of the parts of the library. This slight objection inheres in any system where the books ar arranged by *subjects* rather than by windows, doors, shelves, and similar non-intellectual distinctions.

In this hurriedly prepared account of his plan, the author has doubtless failed to meet many objections which may be raised and which he could easily answer. He would therefor ask the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involved in preparing the Classification and Index has been wholly beyond the appreciation of any who hav never attempted a similar task. Much valuable aid has been rendered by specialists in many departments, and nearly every member of the faculty has given advice from time to time. Among the many to whom thanks ar due, special mention should be made of Mr. C. A. Cutter, the librarian of the Boston Athenæum, Prof. Ezra Abbot and John Fiske, of the Harvard University library, for valuable suggestions and appreciativ criticism. While these friends ar in no way responsible for any remaining imperfections in the scheme, they should hav credit for many improvements which hav been made during these three years of revision.

The three years' trial to which it has been thus subjected has more than justified the claims of its friends, and it is now printed with the more confidence on this account. It has been kept in manuscript up to this time, in order that the many minor details might be subjected to actual trial and modified where improvement was possible.

[In the past nine years over one hundred specialists hav assisted in developing the scheme. Among these ar many well-known names. To all a most cordial acknowledgment is made. Without such assistance, all of it gratuitus, the present edition could not hav been made, for no one mind has the technical and special lerning absolutly necessary

in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the technical adjustment to our scheme and numbers of the material prepared by specialists.

In all the work from its first publication to the present, the most extended and most valued assistance has come from my college classmate, associate and friend, Mr. Walter Stanley Biscoe, who was my first assistant in the Amherst College Library, in the charge of which he succeeded me, only resigning to accept again in 1883 the place next to me in the Columbia College Libraries, where he is now Librarian in charge of Classification and Catalogs. Of the rare unselfishness and loyalty with which he has constantly supported me, giving without compensation time needed for rest and recreation, to advancing work in which he shared my interest, the fitting record is inscribed in this book which best represents his service. It is a little book, but it came not forth except by grievous labor.]

In his varied reading, correspondence, and conversation on the subject, the author doubtless received suggestions and gained ideas which it is now impossible for him to acknowledge. Perhaps the most fruitful source of ideas was the *Nuovo Sistema di Catalogo Bibliografico Generale* of Natale Battezzati, of Milan. Certainly he is indebted to this system adopted by the Italian publishers in 1871, tho he has copied nothing from it. The plan of the St. Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential features were decided upon, tho not given to the public. In filling the nine classes of the scheme the inverted Baconian arrangement of the St. Louis Library has been followed. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so. With these general explanations and acknowledgments he submits the scheme, hoping it may prove as useful to others as it has to himself.

MELVIL DEWEY.

AMHERST COLLEGE LIBRARY,
June 10, 1876.

Such additions to the introduction of 1876 as were made for the second edition of 1885 hav for convenience of users been scattered by topics thru the pages above, enclosed in brackets.

M. D.

COLUMBIA COLLEGE LIBRARY,
August 10, 1885.

CHANGES FROM FIRST EDITION OF 1876.

For the convenience of users of the first edition, tables below in numerical order indicate all the changes made in the scheme since its printing in 1876. Merely verbal changes and additions of qualifying, explanatory and synonymous words, not affecting the class numbers, ar not noted, nor the great number of subdivisions. If a first edition be altered by the tables below, it will be in harmony with the present edition, tho not as full or clear. Some users hav mistaken the meaning of certain heads which ar now made clear by the use of different words, tho there is really no change in the assignment of numbers. In frequent cases some topic omitted before is now assigned to its most nearly related head and printed as a catch-word after it.

The 10 classes remain the same. In the 100 divisions there ar two changes, 020 and 810, and four new divisions are added on blank numbers. To correct the page of divisions, make the blank 070, Newspapers; 080, Special Libraries; and 120, Other metaphysical topics. Move Book Rarities from 020 to 090, and make 020, Library Economy, thus getting it next to 010, Bibliography, and putting at the end, Rarities, which ar usually kept by themselves in separate cases; change 810 from Treatises to American Literature, and the Divisions will be revised.

A better arrangement of Minor Languages, both in 490, Philology, and 890, Literature, changes the place of some languages under these heads but does not affect the division heads themselves. These minor changes appear in the table of section changes below.

No change has been made unless it was clearly proved that the advantages would compensate for the labor. In most cases a comparison of the old and new headings will make plain to any one familiar with the subject why it was best to change. Additions hav been made by filling in blank numbers or enlarging the scope of topics.

Note that the changes ar much less than they would appear by the tables, because these record the same change in the different places for convenience in checking up, and the heads changed ar with few exceptions those under which few books will be found numbered.

An examination of the shelf-list under these numbers wholly or partly moved will show that the labor of adapting a library alredy numbered to the new edition is much less than at first supposed: e. g., to change Criminal Law from 345 to 343. The labor of classification is alredy done. It is only mechanical work to alter the 5 to a 3 in each place that the number occurs.

CHANGES VALUABLE AND EASILY MADE.

In other cases a separation must be made, and then the work is mechanical; e. g., American Literature mixt with English must be pickt out, then the second figure 2 changed to 1. The first and third figures remain the same.

If the numbers agree with the new tables, the great subject index can be used and the various charts, shelf labels, card guides, printed notes, etc., etc., which ar in preparation, can be adopted at once with so great a saving of time and money that few librarians who examin the question thuroly will doubt the wisdom of making the necessary changes so that the first three figures shall agree with the index.

Whether it will pay to use the subdivisions will depend on circumstances. In some libraries they would be invaluable. In others, while very useful in showing the scope of the subjects and in making cross references, notes, etc., it is doubtful if it would be wise to go over the library and add the sub-sections. See the note on p. 65, on the extent to which the minute divisions should be used.

Librarians making the necessary changes for the revised edition need not fear that a series of editions hav begun each of which will call for such changes. The changes here submitted ar the accumulation of twelve years' experience in using the system. They hav all been very carefully considered, and while the first edition was in its nature tentativ, this one may be considered as having the numbers settled after sufficient trial and not likely to be again altered, tho of course certain subjects not yet subdivided will in due time hav subdivisions added, and suggestions from specialists ar invited.

If the old numbers ar used without change, the new index must be altered in ms. to agree or a new edition printed. Either plan involves labor or expense as great as to make the changes, and when finisht one is still out of harmony with the main body of users and unable fully to utilize their labors in catalogs, notes, bulletins, etc., and specially must constantly alter or make for himself the many accessories of the system. All users ar therefor strongly advised to alter their numbers to conform to the 1000 section numbers of the present edition. The gain from the changes will usually be obvious in examining the tables of headings at these numbers.

Parts of topics hav been transferred to other numbers from :—

040 to 080	327 to 323	449 to 447	966 to 967
050 to 070	333 to 332	628 to 622	976 to 975
191 to 192	342 to 350	738 to 739	977 to 978–9
288 to 289.1	348 to 349	774 to 773	

TABLES OF CHANGES FROM EDITION OF 1876.

Topics ar transferred entire from one number to another.

012	to 014	349	to 347.93 and 4	583	to 716
013	to 091	352	to 353.2	584–9	to 581.9
019	to 020	354	to 352.2	622	to 526.9
020	to 090	362	to 267 and 256	629	to 620.8
155	to 156	367	to 331.88	668	to 669.9
156	to 155	391–3	to 390	673	to 666
197–8	to 189	394–9	to 914–9	678	to 677
238	to 220.1	408	to 408.9	746–9	to 745
244	to 264	491	to 495	753–6	to 759.3–9
346	to 264	492	to 493.1	759	to 750.8 and 708
247	to 264.7	493	to 492	776–8	to 771
249	to 244	494	to 491	789	to 780.6
253–9	to 252	495	to 491.5	810–19	to 808.1–9
264	to 265.1	496	to 491.6	828, 38, 48, etc.,	to 827, 837, 847, etc.
267	to 266	497	to 491.7	829, 39, etc.,	to 828, etc.
284	to 285	498	to 439	891–9	like 491–9
322–4	to 321	515	to 513.22–5 and 516.22–5	908	to 902
329	to 320.4	518	to 516.8	912	to 911.3 and 912.3
334	to 332	525	to 524	913	to 910
343	to 345–7	553	to 551	972	to 971
344	to 347.8	574	to 591.4	975	to 974
345	to 343	577	to 576.1	978–9	to 972
346	to 347.7	582	to 582–9		
347	to 344				

New heads ar inserted or old ones enlarged in scope at :—

012	197	273	332	437–9	582–9	753–6	889
013	198	284	333	447	591	759	890–9
019	208	291	334	479	622	771–8	908
020	219	293	343–7	489	627	789	912
070	238	307	349	491–9	628	794–5	913
080	246	308	352–4	508	629	808	967
101	247	313	362	513	655	810–19	969
108	248	321	367	515	659	829	972
114–29	249	322	375	516	663–9	839	974–9
137	253–9	323	379	525	673	849	
164–9	264	324	391–9	551	678	859	
174	265	328	408	553	739	869	
189	267	329	427–9	577	746–9	879	

VARIATIONS PRACTICABLE IN USING.

Not a few users hav assumed that adoption of the Decimal Classification and Relativ Index carried with it other parts of the system which the author had adopted at Amherst or Wellesley or Columbia. In fact, the plan in each of these college libraries differs somewhat from both the others, and if adapting it to a free public or private library greater variations would appear, for the special constituency, circumstances, and resources of each library must be considered in deciding what is best for it. This decision should be made by some one familiar not only with the library and its needs, but also with all the methods of any merit and the comparativ ease and cost of introducing them into any given library.

These brief notes will show what is essential and what optional with the user who adopts the so-called "Dewey System."

1. What is the System? It is a Relativ Index (for description see preceding pages, 31–35,) used with a subject classification, so numbered or lettered that reference will be compact, accurate, and quickly made.

This was the invention, and anything beyond this is merely the application of this plan with various helps and accessories. Whoever uses a subject classification with a relativ index (i. e. an index in which the one entry will index a book in the ordinary way and at the same time index shelves, cards, clippings, or any other literary material) is using this system.

2. Best known Form of the System. While the author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters with bases of 35, (the form accepted by Mr. Cutter and now being admirably worked out in his Boston Athenæum classification,) 50, 100, and 150, yet none of these hav seemed good enuf to warrant fully working out and publishing the details, except the scheme here printed, based on Arabic numerals and our common arithmetic in its simplest form. It is this special form of the system that is meant in most references to it.

Full discussion of these various forms will be found elsewhere. The adoption of this for general use is based on the fact that no one ever complains of a classification system being too simple, while there is very great danger of the complaint of complexity. These numerals, 1, 2. 3, etc., ar the simplest thing known to the human mind, and so reach the limit of simplicity.

The index is the simplest application of the next simplest thing known, viz., a, b, c, etc. On this use of the two simplest sets of symbols, with their common power, is based the reputation of the plan as the simplest yet proposed.

3. Decimal Form of the System. In selecting this form, the user may adopt the heads filled out by the author, or fill out a new set for himself and alter the index numbers to correspond. This involves labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and the cost some thousands of dollars. The uniform and urgent advice of those who hav tried this work is to adopt a poorer scheme alredy made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of the slightest value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one els, and probably no one ever will. By adopting a scheme alredy workt out he saves much time and money, gains the immense advantage of using a system in common with many others, so that he may utilize their labors and investigations and share with them in the economy of co-operation.

4. Adjustment to Special Local Requirements. Having decided to adopt the system in its decimal form and as workt out and printed, we come to this first practical question. Certain variations ar practicable, and in some cases useful and desirable, and ar noted in 5 below. But the inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous to the success of the plan. It seems a simple matter to change a topic to a line higher or lower, but in some cases this may affect over 100 different entries in the index, and there is no possible way to be sure of correcting them except by examining each one of the thousands of headings. We hav had frequent cases where proposed changes hav been carefully studied out and submitted as improvements, and hav been able to show on our old records where the exact form proposed was adopted and used till considerations which had not been forseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement.

Here again those who hav used the system longest hav been misled into adopting changes which on trial they were compelled to reject, going back to the original form at the expense and confusion of two changes. Even in introducing subdivisions on blank numbers, which would seem a very simple thing to do, repeated mistakes hav been made, and after it was too late to correct them the makers have regretted their neglect to consult with the author and secure the advice and co-operation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and the index, and every copy must be corrected in ms. before it is usable. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor evcn becausc of larger experience in this special work, but because in this way only can it be lerned if numbers hav been alredy assigned with different powers. The user who adopts the printed form avoids the criticism sure to be aimed at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed and blunders ar the author's, not the user's. A list of changes that hav been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to hav been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from anyone, and having alredy given so much time in the effort to improve this system for the common good of all users, he invites the co-operation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

5. Different Notations where Changes ar made. If the reasons that led us to adopt the form printed ar not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. This can be redily done by using a letter, or some other character than the ten digits, to mark changes: e. g., if you wish a different set of subdivisions under any number, make it out to suit and number it a, b, c, etc. It will arrangc in its exact place and cxact order without difficulty, and no other user of the system will be confuscd by the numbers. In the index, cancel the 1, 2, 3, etc. you hav discarded,

and write in the a, b, c, etc. adopted; i. e., when you use our exact numbers, use also our meanings for them as indext. When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using of course as many of our figurcs as ar not changed: e. g., you may want a new heading next to 551.34, Icebergs, which cannot properly go as decimal .1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will giv all needed freedom to the personal equation and the desire for originality, and meets the real want for peculiar classification in peculiar cases.

6. Letters Recommended. A few cases ar noted where it may be best to modify class numbers by letters as above. In popular libraries half of the circulation is often in English prose fiction. A great saving is effcted here by omitting the 823 entirely and printing merely the book number, it being understood that if *no* class numbcr is printed it means 823, which is vastly the commonest. After this, the great circulation of juveniles is a good place to economize, if they ar kept separate as is usually thot desirable in popular libraries. Mark juvenile fiction J for its class number. Then J45 is the 45th juvenile story. Other juveniles may be included with the fiction in the same series, or may better be distributed with the regular subjects, having a J prefixt to their class number to indicate character. Then a "Little People's History of the U. S." is J973. The third and best plan is to keep all the J's together, marking fiction J, and other works with J followed by the class number as in plan second, the only difference being that there J973 is put with 973, while in the third plan it is put with all the other J's between J972, Juvenile history of Mexico, and J974, Juvenile history of New England. The same marking is used for both these plans, and one can be changed into the other by simply distributing the books the other way and telling the attendants that it has been done.

Biografy. The same plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed there ar two others largely recommended, viz.: to put all biografies in one alfabet of names of *persons written about*, thus making the shelves a duplicate of the biografy class list, which must be arranged in this way, since few readers know just what group to consult in a clast list. If this is done, all the books ar markt

simply B for class number, and the Cutter number indicating the subject follows as the book number; e. g., the life of Grant is B, G75. This is most compact for charging, and preferred in popular libraries of large circulation.

The third plan is to distribute as far as possible biografy with the subject it best illustrates, leaving of course under 920, lives not bearing specially on any subject: e. g., all lives of musicians go under 780 and its subdivisions; the life of Wagner being 782.1 insted of 927.821 as in the tables. As in juveniles, it is well to substitute B for the 92, marking Wagner's life B782.1. Then it can be arranged with 782, or all B's can be put together, thus giving exactly the present arrangement without changing a figure. This treatment of fiction, juveniles, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries hav a constituency not reading English, and so need a parallel library in German or Swedish, or French, etc. This is easiest made by simply prefixing the initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all the German books on each subject may be groupt under G at the end of each class number. The German parallel library is made by simply putting all the G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welch, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used so as to avoid an extra letter in charging; e. g., S will answer either for Spanish or Swedish if used in only one sense. This plan has given great satisfaction in actual use; e. g., in the Ottendorfer Branch of the N. Y. Free Circulating Library.

The same principle can be applied also in combining each language with its literature, if it is preferred to abolish the important class, Philology, and make it simply an appendix to Literature, and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology.

Reference Library. To separate the books most needed, the best plan is to mark R before the class number and arrange the books together as if it were a Russian library. When the books ar to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g., the Phœnix library of Columbia College. This has P prefixt to the class number and thus constitutes a parallel library by itself. An initial is usually better in

such cases than a * or similar mark, since the initial helps the memory and is just as brief and cheap. The same plan applies of course if the library has an "inferno" for books not used or circulated without permits; or has a more distant storage where books worth keeping but seldom called for can be arranged in a parallel library.

Still another provision for all these special libraries is made in this edition in 080, 8 being the regular number for general collections which cannot be separated because of binding or conditions of gift. But insted of the three figures in 080, a single letter indicates the special collection, and it is a simple matter to lern the location of the few special collections of any one library. The numbers 1–99 are also blank in the regular scheme, and if wisht can be assigned to special use without confusion with the index, for the initial 0 is there printed for all numbers before 100.

7. Contractions for Specialists. The system is often used by specialists for very minute work when the decimals ar run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no practical gain to justify the labor. A specialist working on the "Swedish poetry of the age of Gustavus" can use a single letter or figure insted of the full 839.715 and save five characters in numbering each note. If a figure is used it wud naturally be the last one of those omitted, in this case 5, unless the user had alredy used that number for something els. A body of such notes can be inserted together in their place in an index at 839715, with a colored card to mark the special groups, with little danger of confusion, still many will prefer the theoretical completeness of writing a full index number for every separate slip.

8. Use of Alfabet or Chronology for Final Subdivisions. While our plan is decimal as opposed to the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alfabetical index. There are not infrequent cases in minute divisions where it is economy to arrange alfabetically or by dates and without using a translation system. This is specially true in index rerums and the notes of specialists. After the numbers hav been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g., the towns in a given State, the individual birds or insects coming under one number, the names of men written about in biografy, etc. etc. Some may prefer to adopt this plan in places where we hav chosen a grouping; e. g., in chemistry, to put all the metals in one alfabet under 546.3, insted of using the numbers 546.99.

Such use of the alfabet causes no confusion with the index, unless, as in the last case, it replaces heads alredy printed, in which case the first reference to it will make clear the change, and all the figures after the 546.3 where the alfabet commences can be cancelled after each metal in the index. Very likely, if this change is wisht, a more complete one will be made, viz., to put all the elements, non-metallic and metals, in one alfabet under 546. This plan has special value in this place, as new elements ar discovered from time to time, and others are found to be compounds; still we thot it valuable to hav similar metals groupt together for convenience of study, and to cover books written on the group as a whole, and we also thot it important to hav a number for rejected elements, because the literature and references about them remain and must be provided for.

9. Broken Order. Another common and often desirable variation is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. Some assume that the adoption of this system involves keeping the whole 1000 numbers in strict sequence. That is its theory; but a higher rule, used everywhere with us, is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions will be best arranged out of numerical place, — e. g., 520 may be wanted in a room accessible at night; fiction and juveniles and biografy are always wanted near the delivery desk, and in order ar as likely to come at the most distant point. Numberless local reasons may make a broken order important. There need be no hesitation in adopting it if enuf is gained, but there should be cards with clear statements of where each division starts. The page of Division heads is reprinted by the publishers, on cards with wide margins, for just this use. Opposite each division is markt its beginning on the shelves, and it is not difficult to vary the order as much as necessary. It is less wise to do this in the sections, nor is it desirable except in very rare cases, when a dummy is always inserted in the blank space. Of course the nearer the divisions run in regular order, 1 to 99, the easier it is for a stranger to find his way about.

This broken-order plan is the best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelved just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's ar shelved just ahead of the corresponding 800's, and remembering that after the main languages four or more figures ar required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welch between 891.65 and 891.66.

10. Pro and Con Division of Topics. It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done in the subdivision in some cases, — e. g., 337, Protection and Free Trade. In others it is equally useful, and can be indicated by an added mark, — e. g., 324.3, Woman Suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c initials for pro and con, which, tho short, are too long for a circulating library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz., 324.3, 324.3c, 324.3p; or if + and — ar used, the usual order is followed: +, —.

These ten notes suggest the range of variations which may be adopted in the classification itself by users of the system. For book numbers deciding the order of material after it is groupt into its final classes, any of the various plans may be used. Descriptions and illustrations of the best of them ar printed.

USES OF THE DECIMAL CLASSIFICATION.

Twelve years' use has shown applications for the system in many new directions. In administration nearly every department of work feels directly the great economy. None hav been more enthusiastic in its praise than those using it for scrap-books, indexes, index rerums, and notes. In short, in every field of literary activity some one has found by trial that the system is a tool of wonderful labor-saving power, and the practical usefulness of the method has exceeded the most sanguine hopes of its erly friends. Some of the most common applications ar noted below, not as a complete list of its uses, but merely as suggestiv of its really wonderful adaptability to all kinds of library and literary work.

On the Shelves. The system on the shelves is the simplest form of the relativ location. Many libraries hav adopted it for shelf arrangement, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything but shelf arrangement. As in the card catalog system, there is room for indefinit expansion without devices or provisions. Space is the only requisit, and if the shelf room is exhausted, the floor space is equally good, except for the inconvenience of stooping. The very great advantages for use on the shelves ar discust elsewhere.

In the Catalogs. Its chief use is of course in the subject catalog on cards, tho, as in the shelf list, an admirable subject catalog can be made on sheets as described below under *Index Rerum*.

Printed Subject Catalog. On this system, this is also the most compact and satisfactory in its use. Under each class number ar given the resources of the library on that subject. For convenience, the name as well as the number of the subject is given in the heading; e. g. "513 Geometry." General notes ar printed in finer type under general heads, and a brief index at the end shows where to open the book to find any heading. The class number is put in the place of the page number, so that any index on this system indexes any catalog.

Card Catalog. For this P size, 7½x12½cm., is best, as it gives room for notes that may be added as found during a series of years. Labels on the outside show what number begins on each side the drawer, and at frequent intervals inside zinc guides with class numbers and headings project 5mm. above the cards like the head lines in a printed catalog. The classification is thus mapt out on the tops of the cards, and reference is almost instantaneous to the immediate place wanted. For this catalog, guides with printed numbers and headings may be had as well as outside labels for the drawers and for the shelves themselves, this being one of the results of co-operation among the many libraries using the system.

In the Author Catalog and in the Accession Book. The class number in these two catalogs holds a very subordinate place, yet is constantly useful. In each it appears in a single colum as in the Relativ Index; in one arranged strictly by authors' surnames, in the other, as strictly in the order in which the books chanced to be added. Where there is no subject catalog, one can rapidly pick out the titles in which he is interested by glancing down the colum for the class number wanted. In the accession book, tables of the number of books added on each subject ar redily made from this colum. A glance at it also shows the character, by subjects, of the books added during any given period. Thus its uses are manifold, and chiefly should it be remembered that wherever this number occurs, in any connection, it tells both what the book is about and where it is shelved.

In the Shelf List. Here the number is most important. Each page bears its class number. On it, in colums, ar given author's name and brief title, thus making the most compact and useful ms. subject catalog possible.

By simply printing these lists at any time a subject class list of the best kind is made for any topic on which there may be present interest; c. g., if war breaks out with Mexico, interest is greatly stimulated and everything about Mexico is wanted. The librarian has only to open his shelf list to 972 and print it. This great gain is without the slightest variation from the form found best in its regular use as a shelf list for the yearly examination of the shelves for losses and misplacements.

In Charging System. Here as elsewhere it serves all the ordinary purposes with special advantages of its own. The check-box showing the whereabouts of each book off the shelves can be used in any system. Its peculiar advantage in our system of classification is that it always stands on the desk, a complete table of the books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who hav them. Such a table of circulation always at hand and without an item of expense or labor, (for the check-box is necessary for other purposes,) is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics is little labor. An attendant counts the slips on each subject as often as may be wisht, and the count against the class number on a sheet ruled to correspond with the divisions of the check-box into ten colums of ten squares each. This sheet is useful for various purposes in the decimal system. For statistics, one colum shows the circulation of each of the ten classes; an entire sheet just holds the record of circulation for each of the one hundred divisions, or for each of the one hundred sections of any class. On the sheet, as in the check-box, each compartment represents a specific subject and the footing of the colum a more general subject. If the compartment be used for sections, the footing of the colum will giv the circulation of the division; if used for divisions, the footing will giv the circulation of the class; and if used for the classes, the footing will giv the total circulation of the library.

In Cross References. In no place ar the advantages felt so much as here. As a result, some users of the system ar undertaking analyses and cross references to an extent not hitherto thot practicable or hardly possible. Insted of writing a line or two, three or four figures tell more exactly just what the reference is, and the gain in use is greater than in recording and in space. The clearness and directness of the method aids wonderfully in this work. On the subject cards may be put references to periodicals, transactions, chapters in essays, etc., etc., in the most compact and usable form. We recommend giving not only the reference, but also the exact page on which it begins and ends, thus saving the reader's time and insuring that he finds what he seeks.

Re-cataloging. Amherst College Library in 1873 adopted the plan and at once commenced transferring the entire library to the new catalog. It was found entirely practicable to make the change gradually, as means allowed, without interfering in any appreciable degree with the circulation of the books. As no shelf in the library contained more than fifty books, the only distinction necessary to prevent confusion between the two systems in use at the same time was to omit the first fifty book numbers of each section, numbering, e. g., the first English Grammar 425.51, instead of 425.1. The attendants immediately recognized any book number above 50 as belonging to the new system, and no confusion resulted. The books ar taken from the shelves for re-cataloging only as fast as needed; the new class number is immediately substituted for the old shelf number, and the books ar placed in the classified portion of the library. When the old shelves ar cleared the book numbers from 1–50 can be assigned as fast as books ar received. As the shelf catalog is on laced sheets, there is nothing to be altered or rewritten. The new sheet for the books from 1–50 is laced in just before the others, and the order is as perfect as if it had been done at the first. No extra labor is required, and still the confusion and interruption of circulation incident to re-cataloging on other plans ar avoided.

Adaptability. The system is so flexible that it adapts itself to almost any circumstances. It may be used in any one of its applications without the others, and with a proportionate result. It may be applied to the pamflets alone, bringing order out of chaos, and solving this vext and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan. This application to the shelves may be either with or without the book numbers. If without, the books are arranged on the shelves alfabetically by authors under each class number. For a private collection, or a library where the books ar not loaned from the building, this last plan has some markt advantages. The books on any subject, by the same author, always stand side by side whatever the time of their reception; and what is more important, the author and subject being known, the exact place of the book can be found without catalog or index. On the other hand, the invaluable shelf list must either be wholly abandoned or kept on cards in order to retain the titles in place, thus sacrificing much of its accuracy and convenience for examining and verifying; and (a much more serious objection) in order to identify the book the author's name and frequently a part of the title must accompany the

class number on all the records, catalogs, and references. These objections, with the almost certain confusion of different authors of the same name, or very similar names, make the alfabetical arrangement almost impracticable for a circulating library. [Since the above was printed in 1876, translation systems hav come into use, by which most of the objections to the alfabetical order ar removed. Mr. J. Schwartz, Librarian of the N. Y. Apprentices, has the credit of devising this useful system, tho the simpler form, made by Mr. C. A. Cutter, is generally adopted. One great advantage of these book numbers is that the same author has the same book number in every subject; i. e., the figures ar significant like our class numbers and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number.]

Pamflets. These class numbers applied to pamflets hav proved specially satisfactory. The number is written on the upper left corner and the pamflets ar arranged either in pamflet cases with the books on the same subject, or on special shelves divided every 10cm. by perpendicular sections. As each pamflet is examined when received into the library, it is the work of a single moment to pencil on it its class number. There is no expense whatever incurred, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian caring for a pamflet collection. A catalog of authors may be made on slips if desired. The pamflets themselves are the best Subject Catalog.

[A number of good devices for holding pamflets hav been brot out within ten years. The best is Clacher's. If something cheaper must be used, the L. B. cases ar good. Still cheaper ar those cataloged as C. C. Pamflet Cases, and devised by the chief librarian for Columbia College. These ar made of pasteboard, in three sizes, varying only in inside width, the hight being the same in all. The thinnest is little more than a very hevy envelop, the thickest like the ordinary case. All ar open at the back, but as that comes near the back of the shelf, very little dust can get in. They ar labeled with class numbers in the three sizes, waste little shelf space, and ar so cheap that they hav been adopted with great satisfaction for distributing the pamflets as if they were books. To put pamflets on the shelves without some cover gives a very ragged appearance. They break down and get torn and

soiled, and experience is against it except in private collections little handled. The tendency grows to put all material under its class number in proper place, for the same reasons that hav led to giving up division by size of books. One examining a subject likes to see *all the resources in one place.*]

Sale Duplicates. The same arrangement is admirable here. They ar so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there ar on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time the least expense is incurred. The plan would be a great convenience to both dealers and customers, if applied to the miscellaneous stock of a bookstore. Very often a much wanted book, especially if not recently publisht, is reported "not in stock" when such an arrangement by subjects would hav revealed its place at once. Specialists often find on the shelves books that they would never hav ordered, but ar glad to buy after an examination. Experience proves it a profitable thing for a dealer to hav his books so arranged that each person may find those in which he is interested without examining the entire stock.

Scrap-books. Tho for library use, the plan has proved of great service in preserving newspaper clippings in large envelops arranged by class numbers; and more especially in taking the place of the common note-book and Index-Rerum. Slips of uniform size are used with the class number of the subject written on the corner. Minute alfabetical headings ar used under each class number, the slips being arranged in numerical order like the Subject Card Catalog. Clippings and notes arranged in this way ar at all times their own complete index, and hav the same advantages over the common scrap and note-books that the Subject Catalog has over the Accession Book, in looking up the resources of the library on any given subject. Those who hav tried this method are so enthusiastic in its praise that it seemed worthy of mention in this place.

[Experiments conducted in recent years hav resulted in several admirable devices for applying the system to scraps and index rerums. Ordinary envelops are not of proper material or pattern to giv satisfaction, but a special form (the "L. B. Scrap Box") is made meeting all requirements. Another convenient form is like a shelf-list, on special manila paper, perforated to fit the shelf-binders. The class number is printed on the upper outer corner, and clippings are mounted on the sheet as in a common scrap-book. When full, another sheet is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. The "M. D. Scrap Book" combines the great advantages of the envelop system with those of the pasted system. It is like the L. B. sheets above, with full-sized flaps opening on three edges. The sheet thus gives eight pages on which to mount scraps, and the flaps make a 20x25cm. pocket which holds more matter than one of the large envelops, and is very expansiv. This form, like the L. B., fits the shelf-binders. A fourth form much liked by users is the "Breed Portfolio Scrap Book," a series of 100 very strong envelops handsomely bound into a book for the shelves. It is used like the L. B. Box and looks much neater on the shelves, but does not allow of inserting extra envelops when one gets full. The first three forms are made by the Library Bureau, ar not copyrighted or patented, and any one may make them for himself if he can do it as cheaply as he can buy them, which is very unlikely, as in their proper form they are made of special materials and by special machinery not redily available.]

Index Rerum. By much the best form is the standard P size card or slip 7½x12½cm. The class number is written or printed on the upper left-hand corner very near the top edge. Any alfabetical subject-head is written at its right, and the notes fill the card below. There ar alredy devised and manufactured scores of devices for the convenient handling and storage of these slips; trays of tin, wood, and paper, boxes for the pocket and desk, pigeon-holes, sloping cases, drawers, card-rests, etc., etc. Space cannot be given to details here, but any one interested can get full descriptiv catalogs with illustrations, prices, etc., from the Library Bureau, Boston. Long study and experience lead the author to use the stock "L200" as the best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. Dealers will naturally prefer to sell the higher priced Bristol, but the "L200" will suit most people as well and cost less.

Another admirable form is similar to the L. B. Scrap Book or shelf list, in fact, is simply a shelf-list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject ar written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter-page in sight at once, and holds over five times as much as the P card. This form is highly recommended. Of course the system can be applied to slips or sheets of any size, but there ar literally hundreds of accessories and conveniences exactly adapted to these two sizes which ar used tenfold more than all others combined, and it is folly for one to begin on another size, thus losing the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable ar Billet 10x15cm., Note 12½x20cm., and *Ms.* 15x25cm. There ar repeated cases where users of some other size hav finally found it profitable to change to either the P,7½x12½, or to the L,20x25cm. even at the cost of re-writing many notes.

Note-books are best in this last described form. The much poorer method is to take a bound blank book and assign the class numbers in order, giving about the space it is thot each will require, and when the pages so assigned ar full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical Indexes. The class numbers ar used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. It is hoped that enuf hav been mentioned to show its wide adaptability to the wants of the librarian and the student.

RULES AND SUGGESTIONS FOR CLASSIFYING.

[Get a general knowledge of the scheme, lerning the ten main classes, so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Use the index freely, till thuroly familiar with the scheme.

The title, tho sometimes misleading, and always to be verified by the work itself, is usually of great help in deciding the character of the book. The author is supposed to choose it to indicate his subject, and unless there is reason to doubt it, it may fairly be trusted. Always examin the table of contents, which is the best guide to the true subject. To avoid mistakes, put by on an "under consideration" shelf, books you cannot locate, till you can examin more at leisure or consult some expert competent to decide their true subject and relation. Specialists ar usually glad to examin new books in their departments, enuf to class them. Old ones they know where to put alredy. After deciding what the book is about, locate this subject in the tables, either by looking at the subject in the index, or by using the tables directly,—for the beginner a longer process, which he can hardly trust with safety without subsequent reference to the index. By locating by the tables alone, and then verifying your result by the index, you will more rapidly acquire knowledge of the classification, and facility in its use. To do this, decide first to which of the ten classes the subject belongs; then take that class as if there were no other, and decide to which of its ten divisions your subject belongs; then in the same way select its section and sub-section, thus running down your topics in the grooves, which become tenfold narrower at each step.]

Assign every book to the most minute head which will contain it

Assigning Class Numbers. In arranging books in the classification, as in filling out the scheme, practical usefulness must be esteemed the most important thing. Put each book under the subject to the student of which it is most useful. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place. Following this rule, a Philosophy of Art is put with Art, not with Philosophy; a History of Mathematics, with Mathematics, not with History; for the Philosophy or History is simply the *form* which these books hav taken. The true content or subject is Art, or Mathematics, and to the student of these subjects they ar most

useful. The *predominant tendency or obvious purpose* of the book, usually decides its class number at once; still, a book treats often of two or more different subjects, and in such cases it is assigned to the place where it will be most useful, and underneath the class number ar written the numbers of any other subjects on which it also treats. These *Cross References* ar given both on the plate and the subject card as well as on the cross reference card. The various characters of different libraries necessarily modify the class numbers in particular cases. Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme hav two or more places, according to these different sides, — e. g., a book on "school hygiene" which a medical library puts under 613 has also a place in 371.7, where the educational specialist requires it. *Not only the tendency and scope of each book, but also the nature and specialties of each library, must be considered.* Small libraries will usually use the minute divisions beyond three figures only in certain divisions, like travel, parts of history, literature, etc.

If a book treats of a majority of the sections of any division, it is given the Division number insted of the most important Section number with cross references. [Unless some one of the Sections is so prominent as to warrant placing the book in it, a book on four or more sections is better clast with the general head.]

A volume on light, heat, or sound, is clast under the head most fully discust, and referred to from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, it is clast as 530, or general physics, altho no mention be made of electricity, magnetism, or molecular physics.

It is one of the markt advantages of the plan that these cross-references, notes, etc. may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Cross-references ar added when they ar found necessary.

These numbers indicating more closely the character of the book should be added as rapidly as possible, and all specialists should be invited to call the attention of the librarian to every desirable cross-reference they notice in their reading. These numbers take little room, ar easily added, and in most cases ar very valuable.

Collected works, libraries, etc., ar either kept together and assigned like individual books to the most specific head that will contain them; or assigned to the most prominent of the various subjects on which they treat, with cross references from the others; or ar separated and the parts clast as independent works.

[This last practice is constantly growing in favor, and many of the best librarians now disregard largely the uniform bindings and "series" lettering, and, unless the contents of the volumes ar so connected that they cannot be separated, class each under the most specific head that will contain it.]

Translations are clast with their originals. [Reviews, keys, analyses, answers, and other books about specific books, as a rule, ar clast with the original book as being there most useful.]

[**Number of Figures used in Class Number.** Decided according to circumstances in each library. In very small collections two figures might do till the growth required further divisions. But it would be economy and save handling the books a second time to use at least three figures at the first, even in the smallest collection, and in larger libraries all the subdivisions may be used for the same reason, tho the number of books may not seem to justify it.

Remember that the question of the number of the books you may hav on any subject has in this system no special weight. Being a relativ location, the fact that you havn't a book on 20 consecutiv topics wastes no space on shelves or in catalogs. The numbers ar merely skipt. This plan not only does no harm but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you hav nothing on the subject, a piece of information second in value only to finding something, for one need no longer hunt. A library recently adopted the plan of putting all of the books of a division together where they had but few, e. g., all mathematical works were marked 510. It took just as many figures, cost just as much labor in most cases, and if a man wanted the one calculus in the whole library he had to hunt over the 150 v. in 510, when otherwise he would hav found it instantly standing alone as 517.

The one objection to the close classing is that it gives a longer number to charge in a lending library. In a reference library there can be no question that the full sub-sections should be used, and where the short number is thot imperativ it may be well to add the sub-sections to the three figures, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examined it and found out just what it is about, the record is preserved for the benefit of others.]

TO USERS.

Tables. The first page of tables shows the ten Classes into which all topics ar divided. The next page shows thc nine Divisions of each of thc tcn classes, and is useful merely to get a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class ar divided. These pages ar to be used for a synoptic view on a single page of the scope of each class.

Following these three groups is the complete classification, which repeats, in proper order, all the classes, divisions, and scctions with all the sub-sections given undcr each section. Beside the simple heads, synonymous terms, examplcs, brief notes, dates, and various catch-words ar often addcd for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all refercnces to numbers should be lookcd up in the full tables of sub-sections, tho it be a more gcneral head that is wanted.

Index. After the tables is an index, in which all the heads of the tables ar arranged in one simple alfabet, with the class number of each referring to its exact place in the preceding tables. This indcx includes also, as far as they hav been found, all the synonyms or alternativ names for the heads, and any other entries that seemed likely to help a reader find rcdily the subjcct sought. Tho the user knows just where to turn to his subjcct in the tables, by first consulting the index he may be sent to other allied subjccts, where he will find valuable matter which he would otherwise overlook.

In thinking or speaking of the class numbers, confusion will be avoided by always reading them with the decimal point; e. g., 942.27 is read "nine forty-two, twenty-seven,"—never "ninety-four, two twenty-seven," etc.

CLASSES.

0. GENERAL WORKS.
1. PHILOSOPHY.
2. THEOLOGY.
3. SOCIOLOGY.
4. PHILOLOGY.
5. NATURAL SCIENCE.
6. USEFUL ARTS.
7. FINE ARTS.
8. LITERATURE.
9. HISTORY.

DIVISIONS.

000 General Works.
010 Bibliography.
020 Library Economy.
030 General Cyclopedias.
040 General Collections.
050 General Periodicals.
060 General Societies.
070 Newspapers.
080 Special Libraries. Polygraphy.
090 Book Rarities.

100 Philosophy.
110 Metaphysics.
120 Special Metaphysical Topics.
130 Mind and Body.
140 Philosophical Systems.
150 Mental Faculties. Psychology.
160 Logic.
170 Ethics.
180 Ancient Philosophers.
190 Modern Philosophers.

200 Religion.
210 Natural Theology.
220 Bible.
230 Doctrinal Theol. Dogmatics.
240 Devotional and Practical.
250 Homiletic. Pastoral. Parochial.
260 Church. Institutions. Work.
270 Religious History.
280 Christian Churches and Sects.
290 Non-christian Religions.

300 Sociology.
310 Statistics.
320 Political Science.
330 Political Economy.
340 Law.
350 Administration.
360 Associations and Institutions.
370 Education.
380 Commerce and Communication.
390 Customs. Costumes. Folk-lore.

400 Philology.
410 Comparative.
420 English.
430 German.
440 French.
450 Italian.
460 Spanish.
470 Latin.
480 Greek.
490 Minor Languages.

500 Natural Science.
510 Mathematics.
520 Astronomy.
530 Physics.
540 Chemistry.
550 Geology.
560 Paleontology.
570 Biology.
580 Botany.
590 Zoology.

600 Useful Arts.
610 Medicine.
620 Engineering.
630 Agriculture.
640 Domestic Economy.
650 Communication and Commerce.
660 Chemical Technology.
670 Manufactures.
680 Mechanic Trades.
690 Building.

700 Fine Arts.
710 Landscape Gardening.
720 Architecture.
730 Sculpture.
740 Drawing. Design. Decoration.
750 Painting.
760 Engraving.
770 Photography.
780 Music.
790 Amusements.

800 Literature.
810 American.
820 English.
830 German.
840 French.
850 Italian.
860 Spanish.
870 Latin.
880 Greek.
890 Minor Languages.

900 History.
910 Geography and Description.
920 Biography.
930 Ancient History.
940 Modern. Europe.
950 Asia.
960 Africa.
970 North America.
980 South America.
990 Oceanica and Polar Regions.

GENERAL WORKS.

Limited to *none* of the nine classes.

000
001
002
003
004
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007
008
009

Left blank for local history or biography, etc., where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 Bibliography.
011 General Bibliographies.
012 Of Special Authors.
013 „ „ Classes of Authors.
014 „ „ Forms, Pseudonyms, etc.
015 „ „ Countries.
016 „ „ Subjects.
017 Subject Catalogs.
018 Author „
019 Dictionary „

020 Library Economy.
021 Scope and Founding.
022 Buildings.
023 Government and Service.
024 Regulations for Readers.
025 Administration. Departments.
026 Special Subject Libraries, etc.
027 General Libraries. Reports, etc.
028 Reading and Aids.
029 Literary Methods.

030 General Cyclopedias.
031 American.
032 English.
033 German.
034 French.
035 Italian.
036 Spanish.
037 Slavic.
038 Scandinavian.
039 Minor Languages.

040 General Collected Essays, etc.
041 American.
042 English.
043 German.
044 French.
045 Italian.
046 Spanish.
047 Slavic.
048 Scandinavian.
049 Minor Languages.

050 General Periodicals.
051 American.
052 English.
053 German.
054 French.
055 Italian.
056 Spanish.
057 Slavic.
058 Scandinavian.
059 Minor Languages.

060 General Societies.
061 American.
062 English.
063 German.
064 French.
065 Italian.
066 Spanish.
067 Slavic.
068 Scandinavian.
069 Minor Languages.

070 Newspapers.
071 American.
072 English.
073 German.
074 French.
075 Italian.
076 Spanish.
077 Slavic.
078 Scandinavian.
079 Minor Languages.

080 Special Libraries. Polygraphy.
081
082
083
084
085
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087
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089

Left blank to be used (if preferred to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i. e. are bound pamphlets, essays, addresses, scrap or note books, etc., too general in scope to go under any single class.

090 Book Rarities.
091 Manuscripts.
092 Block Books.
093 Early Printed. Incunabula. See 655
094 Rare Printing. Privately Printed.
095 Rare Binding.
096 Rare Illustrations or Materials.
097 Ownership. Book Plates.
098 Prohibited. Lost. Imaginary
099 Other Rarities. Curiosa.

PHILOSOPHY.

100 Philosophy.
101 Utility.
102 Compends.
103 Dictionaries.
104 Essays.
105 Periodicals.
106 Societies.
107 Education.
108 Polygraphy.
109 History.

110 Metaphysics.
111 Ontology.
112 Methodology.
113 Cosmology.
114 Space.
115 Time.
116 Motion.
117 Matter.
118 Force.
119 Quantity. Number.

120 Metaphysical Topics.
121 Knowledge, origin, and limits.
122 Causation. Cause and effect.
123 Liberty and Necessity.
124 Teleology. Final causes.
125 Infinite and finite.
126 Consciousness. Personality.
127 Unconsciousness. Automata.
128 The soul.
129 Origin of the individual soul.

130 Mind and Body.
131 Mental physiology and hygiene.
132 Mental derangements.
133 Delusions. Witchcraft. Magic.
134 Mesmerism. Clairvoyance.
135 Sleep. Dreams. Somnambulism.
136 Sexes.
137 Temperaments.
138 Physiognomy.
139 Phrenology. Mental photography.

140 Philosophical Systems.
141 Idealism. Transcendentalism.
142 Critical.
143 Intuitionalism.
144 Empiricism.
145 Sensationalism.
146 Materialism. Positivism.
147 Pantheism. Monism.
148 Eclecticism.
149 Other philosophical systems.

150 Mental Faculties.
151 Intellect.
152 Sense.
153 Understanding.
154 Memory.
155 Imagination.
156 Reason.
157 Sensibility. Emotions.
158 Instincts.
159 Will.

160 Logic.
161 Inductive.
162 Deductive.
163 Assent.
164 Symbolic. Algebraic.
165 Sources of error. Fallacies.
166 Syllogism. Enthymeme.
167 Hypothesis.
168 Argument and persuasion.
169 Analogy. Correspondence.

170 Ethics.
171 Theory of ethics.
172 State ethics.
173 Family ethics.
174 Professional and business ethics.
175 Ethics of amusements.
176 Sexual ethics.
177 Social ethics.
178 Temperance.
179 Other ethical topics.

180 Ancient Philosophers.
181 Oriental.
182 Early Greek.
183 Sophistic and Socratic.
184 Platonic.
185 Aristotelian.
186 Pyrrhonist and New Platonist.
187 Epicurean.
188 Stoic.
189 Early Christian and medieval.

190 Modern Philosophers.
191 American.
192 British.
193 German.
194 French.
195 Italian.
196 Spanish.
197 Slavic.
198 Scandinavian.
199 Other modern.

RELIGION.

200 Religion.
201 Philosophy. Theories.
202 Compends.
203 Dictionaries. Cyclopedias.
204 Essays. Lectures. Addresses.
205 Periodicals. Reviews.
206 Societies. Transactions.
207 Education. Theological Schools.
208 Polygraphy. Collections.
209 History of Theology.

210 Natural Theology.
211 Deism and Atheism.
212 Pantheism. Theosophy.
213 Creation. Evolution.
214 Providence. Theodicy. Fatalism.
215 Religion and Science.
216 Evil. Depravity.
217 Prayer.
218 Future Life. Immortality.
219 Analogies. Correspondences.

220 Bible.
221 Old Testament.
222 *Historical Books.*
223 *Poetical* „
224 *Prophetical* „
225 New Testament.
226 *Gospels and Acts.*
227 *Epistles.*
228 *Apocalypse.*
229 Apocrypha.

230 Doctrinal. Dogmatics.
231 God. Unity. Trinity.
232 Christ. Christology.
233 Man. The Fall. Sin.
234 Salvation. Soteriology.
235 Angels. Devils. Satan.
236 Eschatology. Death. Judgment.
237 *Future State.*
238 Creeds. Confessions.
239 Apologetics.

240 Practical. Devotional.
241 Didactic. Catechisms.
242 Meditative.
243 Hortatory.
244 Devout miscellany. Fiction.
245 Hymnology. Religious Poetry.
246 Ecclesiology. Symbolism.
247 Sacred Furniture, Vessels, etc.
248 Personal Religion. Asceticism.
249 Family Devotions.

250 Homiletic. Pastoral. Parochial.
251 Homiletics. Preaching.
252 Sermons.
253 Pastoral Visitations. Evangelistic.
254 Clerical Support. Celibacy.
255 Brotherhoods and Sisterhoods.
256 Societies for Parish Work. Guilds.
257 Parochial Schools, Libraries, etc.
258 Parish Care of Sick, Fallen, etc.
259 Other Ministrations and Work.

260 Church. Institutions. Work.
261 Church.
262 *Ecclesiastical polity.*
263 Sabbath. Lord's Day. Sunday.
264 Public Worship. Ritual.
265 Sacraments. Ordinances.
266 Missions. Home and Foreign.
267 Associations. Y. M. C. A., etc.
268 Sunday Schools.
269 Revivals. Retreats.

270 Religious History.
271 Monastic Orders.
272 Persecutions.
273 Doctrines. Dogmas. Heresies.
274 Europe.
275 Asia.
276 Africa.
277 North America.
278 South America.
279 Oceanica.

280 Christian Churches & Sects.
281 Primitive and Oriental.
282 Roman Catholic.
283 Anglican and American P. E.
284 Continental Protestant.
285 Presbyterian. Congregational.
286 Baptist.
287 Methodist.
288 Unitarian.
289 Minor Christian Sects.

290 Ethnic. Non-Christian.
291 Comparative & General Mythology.
292 *Greek and Roman Mythology.*
293 *Teutonic and North'n Mythology.*
294 Brahmanism. Buddhism.
295 Parseeism.
296 Judaism.
297 Mohammedanism.
298 Mormonism.
299 Minor Non-Christian Religions.

SOCIOLOGY.

300 Sociology.
301 Philosophy of Civilization.
302 Compends.
303 Dictionaries.
304 Essays.
305 Periodicals.
306 Societies.
307 Education.
308 Polygraphy.
309 History of Sociology.

310 Statistics.
311 Theory. Methods. Science of.
312 Population. Progress. Vital.
313 Special Topics.
314 Europe.
315 Asia.
316 Africa.
317 North America.
318 South America.
319 Oceanica.

320 Political Science.
321 Form of State.
322 Church and State.
323 Internal or Domestic Relations.
324 Suffrage.
325 Colonies and Immigration.
326 Slavery.
327 Foreign Relations.
328 Legislative Bodies and Annals.
329 Political Parties.

330 Political Economy.
331 Capital. Labor. Wages.
332 Banks. Money. Credits. Interest.
333 Land. Ownership. Rights and Rent.
334 Co-operation.
335 Socialism and Communism.
336 Finance. Public Funds. Taxation.
337 Protection and Free Trade.
338 Production and Manufactures.
339 Pauperism.

340 Law.
341 International Law.
342 Constitutional Law.
343 Criminal Law.
344 Martial Law.
345 American Statutes and Cases.
346 British Statutes and Cases.
347 Treatises. American and British.
348 Canon Law.
349 Foreign Law. Roman.

350 Administration. War.
351 Civil Service.
352 Local Government. City. Town.
353 United States and State.
354 Foreign States.
355 Army. Military Science. See 623.
356 *Infantry.*
357 *Cavalry.*
358 *Artillery.*
359 Navy. Naval Science. See 623.8.

360 Associations. Institutions.
361 Charitable.
362 Hospitals. Asylums.
363 Political.
364 Reformatory.
365 Prisons. Discipline.
366 Secret Societies.
367 Social Clubs.
368 Insurance.
369 Other.

370 Education.
371 Teachers, Methods, and Discipline.
372 Elementary.
373 Higher.
374 Self-education and Culture.
375 Curriculum.
376 Of Women.
377 Religious, Ethical, and Secular.
378 Colleges and Universities.
379 Public-School System.

380 Commerce, Communication.
381 Domestic Trade.
382 Foreign Trade. Consular Reports.
383 Post Office.
384 Telegraph. Cable. Telephone.
385 Railroad and Express.
386 Canal and Highway Transportation.
387 River and Ocean Transportation.
388 City Transit. See 625.
389 Weights and Measures. Metrology.

390 Customs. Popular Life.
391 Costume and Care of Person.
392 Birth. Home and Sex Customs.
393 Treatment of Dead.
394 Public and Social Customs.
395 Etiquette.
396 Woman's Position and Treatment.
397 Gipsies.
398 Folk-lore. Proverbs, etc.
399 Customs of War.

PHILOLOGY.

400 Philology.
401 Philosophy.
402 Compends.
403 Dictionaries.
404 Essays.
405 Periodicals.
406 Societies.
407 Study and Teaching.
408 Polygraphy.
409 History.

410 Comparative.
411 Orthography.
412 Etymology.
413 Dictionaries.
414 Phonology.
415 Grammar.
416 Prosody.
417 Inscriptions.
418 Texts.
419 Hieroglyphics.

420 English.
421 Orthography.
422 Etymology.
423 Dictionaries.
424 Synonyms.
425 Grammar.
426 Prosody.
427 Dialects.
428 School Texts.
429 Anglo-Saxon.

430 German.
431 Orthography.
432 Etymology.
433 Dictionaries.
434 Synonyms.
435 Grammar.
436 Prosody.
437 Dialects.
438 School Texts.
439 Minor Teutonic.

440 French.
441 Orthography.
442 Etymology.
443 Dictionaries.
444 Synonyms.
445 Grammar.
446 Prosody.
447 Dialects.
448 School Texts.
449 Provençal.

450 Italian.
451 Orthography.
452 Etymology.
453 Dictionaries.
454 Synonyms.
455 Grammar.
456 Prosody.
457 Dialects.
458 School Texts.
459 Rumansh and Wallachian.

460 Spanish.
461 Orthography.
462 Etymology.
463 Dictionaries.
464 Synonyms.
465 Grammar.
466 Prosody.
467 Dialects.
468 School Texts.
469 Portuguese.

470 Latin.
471 Orthography.
472 Etymology.
473 Dictionaries.
474 Synonyms.
475 Grammar.
476 Prosody.
477 Dialects.
478 School Texts.
479 Minor Italic.

480 Greek.
481 Orthography.
482 Etymology.
483 Dictionaries.
484 Synonyms.
485 Grammar.
486 Prosody.
487 Dialects.
488 School Texts.
489 Minor Hellenic.

490 Minor Languages.
491 Minor Indo-European.
492 Semitic.
493 Hamitic.
494 Scythian.
495 Eastern Asiatic.
496 African.
497 North American.
498 South American.
499 Malay-Polynesian and other.

NATURAL SCIENCE.

500 Natural Science.
501 Philosophy.
502 Compends, Outlines.
503 Dictionaries, Cyclopedias.
504 Essays, Lectures, Addresses.
505 Periodicals.
506 Societies, Transactions, etc.
507 Education, Teaching.
508 Polygraphy, Collected Works.
509 History.

510 Mathematics.
511 Arithmetic.
512 Algebra.
513 Geometry, Conic Sections.
514 Trigonometry.
515 Descriptive Geometry.
516 Analytical Geometry, Quaternions.
517 Calculus.
518
519 Probabilities.

520 Astronomy.
521 Theoretical.
522 Practical and Spherical.
523 Descriptive.
524 Maps and Observations.
525 Earth.
526 Geodesy.
527 Navigation.
528 Ephemerides.
529 Chronology.

530 Physics.
531 Mechanics.
532 Liquids, Hydraulics.
533 Gases, Pneumatics.
534 Sound, Acoustics.
535 Light, Optics.
536 Heat.
537 Electricity.
538 Magnetism.
539 Molecular Physics.

540 Chemistry.
541 Theoretical.
542 Practical and Experimental
543 Analysis.
544 *Qualitative.*
545 *Quantitative.*
546 Inorganic.
547 Organic.
548 Crystallography.
549 Mineralogy.

550 Geology.
551 Physical and Dynamical Geology.
552 Lithology, Petrography.
553 Economic Geology.
554 Europe.
555 Asia.
556 Africa.
557 North America.
558 South America.
559 Oceanica.

560 Paleontology.
561 Plants.
562 Invertebrates.
563 *Protozoa. Radiates.*
564 *Mollusks.*
565 *Articulates.*
566 Vertebrates.
567 *Fishes. Batrachia*
568 *Reptiles. Birds.*
569 *Mammals.*

570 Biology. Ethnology.
571 Prehistoric Archæology.
572 Ethnology.
573 Natural History of Man.
574 Homologies.
575 Evolution. Species.
576 Origin and Beginnings of Life.
577 Properties of Living Matter.
578 Microscopy.
579 Collectors' Manuals.

580 Botany.
581 Physiological and Structural.
582 Phanerogamia.
583 *Dicotyledonæ.*
584 *Monocotyledonæ.*
585 *Gymnospermæ.*
586 Cryptogamia.
587 *Pteridophyta.*
588 *Bryophyta.*
589 *Thallophyta.*

590 Zoology.
591 Physiological Zoology.
592 Invertebrates.
593 *Protozoa. Radiates.*
594 *Mollusks.*
595 *Articulates.*
596 Vertebrates.
597 *Fishes. Batrachia.*
598 *Reptiles. Birds.*
599 *Mammals.*

USEFUL ARTS.

600 Useful Arts.
601 Philosophy.
602 Compends.
603 Dictionaries. Cyclopædias.
604 Essays. Lectures. Addresses.
605 Periodicals. Magazines. Reviews.
606 Societies. Fairs. Exhibitions.
607 Education. Schools of Technology.
608 Patents.
609 History of Useful Arts.

610 Medicine.
611 Anatomy.
612 Physiology.
613 Hygiene. Gymnastics. Training.
614 Public health. See also 629, San. Eng.
615 Materia medica. Therapeutics.
616 Pathology. Diseases. Treatment.
617 Surgery. Dentistry. Anæsthetics.
618 Obstetrics. Sexual Science.
619 Veterinary medicine.

620 Engineering.
621 Mechanical.
622 Mining.
623 Military.
624 Bridge and Roof.
625 Road and Railroad.
626 Canal.
627 River and Harbor.
628 Sanitary. Water-works.
629 Other branches.

630 Agriculture.
631 Soil. Fertilizers. Drainage.
632 Pests. Hindrances. Blights. Insects.
633 Grains. Grasses. Fibres. Tea, etc.
634 Fruits. Orchards. Vineyards.
635 Kitchen Garden. See 716, Flowers.
636 Domestic animals.
637 Dairy. Milk. Butter. Cheese.
638 Bees. Silkworms.
639 Fishing. Trapping.

640 Domestic Economy.
641 Cookery. Gastronomy.
642 Confectionery. Ices.
643 Food. Dining. Carving.
644 Fuel. Lights. See also 697, 665, 621.32.
645 Furniture. Carpets. Upholstery.
646 Clothing. Toilet. Cosmetics.
647 Servants. Training. Duties. Wages.
648 Laundry.
649 Nursery. Children. Sick-room.

650 Communication. Commerce.
651 Writing. Cipher. Typewriters.
652 *Penmanship. Materials. Methods.*
653 *Short hand. Abbreviations.*
654 Telegraphy. Cables. Signals.
655 Printing. Type. Stereos. Publishing.
656 Transportation. Railroading, etc.
657 Book-keeping. Accounts.
658 Business manuals. Methods. Tables.
659 Advertising and other topics.

660 Chemical Technology.
661 Chemicals; Salts, Paints, etc.
662 Pyrotechnics. Explosives.
663 Beverages; Wines, Liquors, Ales, etc.
664 Foods; Sugar, Starch, etc.
665 Lights; Gas, Oil, Candles, etc.
666 Ceramics, Glass, Clay, Cement, etc.
667 Bleaching. Dyeing. Inks.
668 Other organic chemical industries.
669 Metallurgy. Assaying.

670 Manufactures.
671 Articles made of Metals.
672 *Of Iron and Steel; Stoves, Cutlery, etc.*
673 *Of Brass and Bronze; Bells, etc.*
674 Lumber and articles made of wood.
675 Leather „ „ „ leather.
676 Paper „ „ „ paper.
677 Cotton, Wool, Silk, Linen, etc.
678 Rubber and articles made of rubber.
679 Celluloid and other.

680 Mechanic Trades.
681 Watch and Instrument-making.
682 Blacksmithing. Horseshoeing.
683 Lock and Gun-making.
684 Carriage and Cabinet-making.
685 Saddlery and Shoe-making. Trunks.
686 Book-binding.
687 Clothes-making. Hats.
688
689 Other trades.

690 Building.
691 Materials. Timber, Stone, etc. See 620.1
692 Plans and Specifications.
693 Masonry. Plastering, etc.
694 Carpentry. Stair-building.
695 Slating and Tiling.
696 Plumbing. Gas and Steam-fitting.
697 Warming and Ventilation.
698 Painting, Glazing. Paper-hanging.
699 Car and Ship-building. See 623.8.

FINE ARTS.

700 Fine Arts.
701 Philosophy. Æsthetic.
702 Compends.
703 Dictionaries.
704 Essays. Addresses.
705 Periodicals.
706 Societies.
707 Education. Study. Teaching.
708 Art Galleries.
709 History of Art.

710 Landscape Gardening.
711 Public Parks.
712 Private Grounds. Lawns.
713 Walks. Drives.
714 Water. Fountains. Lakes.
715 Trees. Hedges. Shrubs.
716 Plants. Flowers. Conservatories.
717 Arbors. Seats. Outlooks.
718 Monuments.
719 Cemeteries. See also 393.

720 Architecture.
721 Architectural Construction.
722 Ancient and Oriental.
723 Medieval. Gothic.
724 Modern.
725 Public Buildings.
726 Church. Cathedral.
727 College. School.
728 Domestic. Rural. Villas.
729 Of Special Countries.

730 Sculpture.
731 Materials and Methods.
732 Ancient.
733 *Greek and Roman.*
734 Medieval.
735 Modern.
736 Carving. Seals. Dies. Gems.
737 Numismatics. Coins. Medals.
738 Pottery. Porcelain.
739 Bronzes. Bric-a-brac.

740 Drawing. Decoration.
741 Free-hand. Crayon.
742 Perspective. See also 515.6.
743 Art Anatomy.
744 Mathematical Drawing. See 515.
745 Ornamental Design. Carpet, etc.
746 *Art Needlework.*
747 *Interior Decoration.*
748 *Stained and Iridescent Glass.*
749 Artistic Furniture.

750 Painting.
751 Materials and Methods.
752 Color.
753 Epic. Mythic. Idealistic.
754 Genre. Still Life.
755 Religious. Ecclesiastic.
756 Historical. Battles, etc.
757 Portrait.
758 Landscape. Marine.
759 Various Schools.

760 Engraving.
761 Wood.
762 Copper. Steel.
763 Lithography.
764 Chromolithography.
765 Line. Stipple.
766 Mezzotint. Aquatint.
767 Etching. Dry Print.
768 Bank Note. Machine.
769 Collections of Engravings.

770 Photography.
771 Photographic Chemistry.
772 Silver processes, etc.
773 Gelatine and Pigment processes.
774 Albertype, and Printer's Ink.
775 Photolithography.
776 Photozincography, etc.
777 Photo-engraving. Photo-electros.
778 Special Applications.
779 Collections of Photographs.

780 Music.
781 Theory.
782 Dramatic.
783 Sacred.
784 Vocal.
785 Orchestral.
786 Piano and Organ.
787 Stringed Instruments.
788 Wind „
789 Other „

790 Amusements.
791 Public Entertainments.
792 *Theater. Opera.*
793 In-door Amusements.
794 *Games of skill. Chess.*
795 *Games of chance. Cards.*
796 Out-door Sports.
797 *Boating and Ball.*
798 *Horsemanship. Racing.*
799 *Fishing. Hunting. Shooting.*

LITERATURE.

800 Literature.
801 Philosophy.
802 Compends.
803 Dictionaries.
804 Essays.
805 Periodicals.
806 Societies.
807 Study and Teaching.
808 Treatises, Rhetoric.
809 History.

810 American Literature.
811 „ Poetry.
812 „ Drama.
813 „ Fiction.
814 „ Essays.
815 „ Oratory.
816 „ Letters.
817 „ Satire, Humor.
818 „ Miscellany.
819

820 English Literature.
821 „ Poetry.
822 „ Drama.
823 „ Fiction.
824 „ Essays.
825 „ Oratory.
826 „ Letters.
827 „ Satire, Humor.
828 „ Miscellany.
829 Anglo-Saxon Literature.

830 German Literature.
831 „ Poetry.
832 „ Drama.
833 „ Fiction.
834 „ Essays.
835 „ Oratory.
836 „ Letters.
837 „ Satire, Humor.
338 „ Miscellany.
839 Minor Teutonic Literatures.

840 French Literature.
841 „ Poetry.
842 „ Drama.
843 „ Fiction.
844 „ Essays.
845 „ Oratory.
846 „ Letters.
847 „ Satire, Humor.
848 „ Miscellany.
849 Provençal Literature.

850 Italian Literature.
851 „ Poetry.
852 „ Drama.
853 „ Fiction.
854 „ Essays.
855 „ Oratory.
856 „ Letters.
857 „ Satire, Humor.
858 „ Miscellany.
859 Rumansh and Wallachian.

860 Spanish Literature.
861 „ Poetry.
862 „ Drama.
863 „ Fiction.
864 „ Essays.
865 „ Oratory.
866 „ Letters.
867 „ Satire, Humor.
868 „ Miscellany.
869 Portuguese Literature.

870 Latin Literature.
871 „ Poetry.
872 *Dramatic.*
873 *Epic.*
874 *Lyric.*
875 „ Oratory.
876 „ Letters.
877 „ Satire, Humor.
878 „ Miscellany.
879 Minor Italic Literatures.

880 Greek Literature.
881 „ Poetry.
882 *Dramatic.*
883 *Epic.*
884 *Lyric.*
885 „ Oratory.
886 „ Letters.
887 „ Satire, Humor.
888 „ Miscellany.
889 Minor Hellenic Literatures.

890 Minor Languages.
891 Minor Indo-European.
892 Semitic.
893 Hamitic.
894 Scythian.
895 Eastern Asiatic.
896 African.
897 North American.
898 South American.
899 Malay-Polynesian and other.

HISTORY.

900 History.
901 Philosophy.
902 Compends. Chronology.
903 Dictionaries.
904 Essays.
905 Periodicals.
906 Societies.
907 Study and Teaching.
908 Polygraphy.
909 Universal Histories.

910 Geography and Description.
911 Historical.
912 Maps.
913 Antiquities.
914 Europe.
915 Asia.
916 Africa.
917 North America.
918 South America.
919 Oceanica. Polar Regions.

920 Biography.
921 Of Philosophy.
922 „ Theology.
923 „ Sociology.
924 „ Philology.
925 „ Science.
926 „ Useful Arts.
927 „ Fine Arts.
928 „ Literature.
929 Genealogy. Heraldry.

930 Ancient History.
931 Chinese.
932 Egyptian.
933 Jewish.
934 Indian.
935 Medo-Persian.
936 Keltic.
937 Roman.
938 Greek.
939 Minor Countries.

940 Europe.
941 Scotland. Ireland.
942 England. Wales.
943 Germany. Austria.
944 France.
945 Italy.
946 Spain. Portugal.
947 Russia.
948 Norway. Sweden. Denmark.
949 Minor Countries.

950 Asia.
951 China.
952 Japan.
953 Arabia.
954 India.
955 Persia.
956 Turkey in Asia.
957 Siberia.
958 Turkistan. Afghanistan. Beloochistan.
959 Farther India.

960 Africa.
961 North Africa.
962 Egypt. Nubia.
963 Abyssinia.
964 Morocco.
965 Algeria.
966 North Central Africa.
967 South Central Africa.
968 South Africa.
969 Madagascar.

970 North America.
971 British America.
972 Mexico. Central America.
973 United States.
974 North Atlantic States.
975 South Atlantic States.
976 South Central or Gulf States.
977 Northeast Central or Lake „
978 West Central or Mountain „
979 Pacific States

980 South America.
981 Brazil.
982 Argentine Republic.
983 Chili.
984 Bolivia.
985 Peru.
986 Colombia. Ecuador.
987 Venezuela.
988 Guiana.
989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.
991 Malaysia.
992 Sunda.
993 Australasia.
994 Australia.
995 New Guinea.
996 Polynesia.
997 Isolated Islands.
998 Arctic Regions.
999 Antarctic Regions.

Sub-Sections.

010 Bibliography.

.1, Theory, Utility, etc.; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

011 General Bibliographies. Universal Catalogs.

012 Bibliographies of Special Authors.

e. g., Goethe, Dante, Chaucer, Ruskin, etc.

013 Of Special Classes of Authors.

e. g., Books written by Jesuits, by Catholics, by members of the Bavarian Academy, etc.

014 Of Special Forms. Anonyms, Pseudonyms, etc.

015 Of Special Countries.

Books published in the country. Publishers' lists, current publications. Subdivided by countries like 940–999; e. g., 015.42, Bibliography of books published in England, as Lowndes or Watts.

The history of literature, i. e., belles lettres, poetry, drama, fiction, etc., goes, of course, with those topics in 800, but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, though the literary history of some special class is 013.

016 Of Special Subjects.

Subdivided like the main classification, from 000–999; e. g., 016.01, Bibliography of Bibliographies; 016.091, of Manuscripts; 016.5, of Science; 016.942, of English History, etc.

Catalogs of General Collections.

Catalogs of any special subject, whether Subject, Author, or Dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another.

017 Subject Catalogs. Systematic or Logical.

For all forms of alphabetical subject catalogs, see 019.

018 Author Catalogs.

A volume containing both Author and Subject Catalogs is the more useful in 017.

019 Dictionary Catalogs. Alphabetico-classed, etc.

020 Library Economy.

.1, Theory, Utility, etc.; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

021 Scope and Founding of Libraries.

.1 Scope and Usefulness.
.2 Library as an Educator.
.3 Library in Relation to Schools and the Young.
.4 Library Lectures, Museums, Galleries, etc.
.5 Library as a Public Recreation.
.6 Founding. Extension.
.7 Developing Interest; by Press, Lectures, School, Pulpit, Societies, Circulars, etc.
.8 Legislation; State and Local.
.9 Raising Funds. Securing Gifts of Books, etc.

Subscriptions, Bequests, Lectures, Fairs, Membership fees, Taxes, Government aid, (remitted duties, public documents, foreign exchanges, etc.)

022 Buildings.

.1 **Location. Provision for Growth. Branches. Deliveries.**

.2 **Materials and Protection against Fire. Library Fires.**

.3 **Plans. Number, Size, and Arrangement of Rooms.**

.4 **Storage Rooms.**

.5 **Reading Rooms.**

.6 **Administration and Special Rooms.**
Cataloging, Office, Patent, Newspaper, Public Document, Duplicate, Class, Lecture, Museum, Art, Chess, Conversation, Waiting, Coat, Toilet, etc.

.7 **Lighting. Natural and Artificial. Electric, Gas, etc.**
See 644, Domestic Economy, Fuel and Lights.

.8 **Heating and Ventilation.** See 697, Building, Heating, etc.

.9 **Fixtures. Furniture and Fittings. Shelving, Counters, Hoists, Desks, Tables, Chairs, etc.**

023 Government and Service.

.1 **Constitution and By-Laws for Managers.**

.2 **Appointment and Tenure of Officers.**

.3 **Trustees. Committees. Directors.**

.4 **Chief Librarian. Qualification. Duties.**

.5 **Staff. Assistants, Catalogers, Janitor.**

.6 **Daily Hours. Vacations.**

.7 **Titles and Duties.**

.8 **Salaries.**

.9 **Rules for Staff.**

024 Regulations for Readers.

.1 **Readers' Qualifications.**
User's age, Residence, Guarantees, References, Registration.

.2 **Fees and Assessments. Free Use.**

.3 **Hours of Opening. Evening Opening.**

.4 **Closing. Sunday, Holiday, Vacation, Examination.**

.5 **Reference Use.**
Access to Catalogs, Librarians, and Shelves. Reading-Room Rules. Decorum in Library.

.6 **Home Use.**
Number of Books, Time, Delinquencies, Fines, Re-lending, Restrictions, Renewals.

.7 **Special Privileges to Readers.**
Extra Books. Extra Time. Reservations. Suspension of Rules. Excuses.

.8 **Injuries. Defacements. Mutilations. Losses. Thefts.**

.9 **Other Regulations for Users.**

025 Administration. Departments.

.1 **Executive.**
Selecting and Buying Books, Discounts, Importation, Auctions, Old Book Lists; Supplies, Printing, Finances, Accounts; Relations to Readers, Permits, Privileges, Visitors; Statistics, Reports.

.2 **Accession.**
Books, Serials, Pamphlets, Ephemera; Reception, Collation, Plating, Embossing, Accessioning; Order System, Serial Blanks.

.3 **Catalog.** Printed, Manuscript or Card; Author, Subject, Classed, Dictionary or combined; Co-operative Rules, Size notation; Printed or photographed titles; Cards, cases and fittings.

.4 **Shelf.**
Classification; Shelf Numbers; Shelf and Book Labels; Fixed and Relative Locations; Sizes on shelves; Arrangement and Preservation of Public Documents, Pamphlets, Papers, Manuscripts, Maps, Drawings and Plans, Music, Broadsides, Clippings; Injuries; Heat, gas, insects; Stock Taking; Shelf Lists.

.5 **Reference. Reference Books. Aids to Readers.** See 028–029.

.6 **Loan.**
Indicators; Charging Systems, Legers vs. Cards; Book Cards, Marks, Pockets; Call Slips, Readers' Cards; Notices, Reserves, Registers; Inter-library Loans.

.7 **Binding and Repair.** Materials, Sewing, Color, Lettering. Paper Covers.

.8 **Publications. Sale Duplicates. Exchanges.**
Publishing Reports, Bulletins, etc.

.9 **Building. Care, cleaning, safety. Janitor. Police.**

026 Libraries on Special Subjects.

Histories, Reports, Statistics, Bulletins, Handbooks, Circulars, and everything about the library not more required in one of the sections above. Subdivided by adding the Class Number of Subject; e. g., a Medical Library is 026.61; a Chess Library, 026.795; but the Catalog of a Chess Library is 016.795. Blanks, etc, go under subjects above, but duplicates are desirable under the library, thus making a complete set of its publications.

027 General Libraries. i. e., all not limited to special subjects.

Subdivided if wished by Countries, like 930–999. e. g., 027.744, College libraries in France. Or if wished, group all by geographical location, using 0 in 4th place to indicate no division by *kinds* of libraries. e. g, 027.044, Libraries of France; 027.07471, Libraries of N. Y. city.

.1 **Private and Family.**

.2 **Proprietary, Society, Club, and Athenæum.**

.3 **Subscription. Circulating. e. g., Mudie's, etc.**

.4 **Free Public. Rate Supported. Endowed.**

.5 **State and Government.**

.6 **For Special Classes.**
Institution, Prison, Reformatory, Asylum, Monastic, Workmen's, Factory, Railroad, Sailors, Lighthouse, Itinerating. A Workmen's library of books on engineering goes 026.62, not here.

.7 **College.**

.8 **School. Sunday-School. Parish.**

.9 **Free News Rooms and Reading Rooms.**

028 Reading and Aids.

Methods, choice of editions, courses, fiction, of the young, professorship of, use of reference books, aids, guides, etc. See also 374, Self-education and culture.

029 Literary Methods.

Preserving and making available the results of thought, study, and reading. Index rerums, notebooks, scrapbooks, clippings, classification, indexing, abbreviations (see 653), shorthand, brief longhand, mnemonics (see 157), labor-saving tools and methods, colors, standard sizes, alphabeting, copy and proof, etc. etc.

The Divisions 030–070 below are all subdivided; .1, American; .2, English: .3, German; .4, French; .5, Italian; .6, Spanish; .7, Slavic; .8, Scandinavian; .9, Other.

030 General Cyclopedias.

040 General Collected Essays.

050 General Periodicals. Magazines.

060 General Societies. Transactions.

e. g., Academies of Paris, Berlin, Vienna, etc.

070 General Newspapers. Journalism.

In large collections use geographical divisions under .1, American, .2, English, etc., as in 970 and 940–9.

080 Special Libraries. Polygraphy.

090 Book Rarities.

091 Manuscripts. Autographs.

For Diplomatics and Palæography, see 417, and under the special language, 421.7, 431.7, etc.

092 Block Books.

093 Early Printed Books. Incunabula.

094 Rare Printing.

Aldines, Elzevirs, Caxtons, etc.; Privately printed books; Unique books.

095 Rare Binding.

Noted Binders, Costly Ornament, Curious Bindings.

096 Rare Illustrations or Materials.

Illuminated. Illustrated by inserted plates. Printed on vellum, silk, bark, etc.; in gold or silver letters, etc.

097 Ownership. Book Plates. Ex Libris.

098 Prohibited. Lost. Imaginary.

099 Other Rarities. Curiosa. Minute size, etc.

100 Philosophy in General.

Works limited to none of the nine Divisions.

101 Utility.

102 Compends, Outlines.

103 Dictionaries, Cyclopedias.

104 Essays, Lectures, Addresses.

105 Periodicals, Philosophical Magazines.

106 Societies, Transactions, etc.

107 Study and Teaching of Philosophy.

108 Polygraphy, Extracts, Maxims, etc.

109 History of Philosophy.

110 Metaphysics.

111 Ontology.

Nature of Being. Substance and Form.

112 Methodology.

Philosophical Classification of Knowledge. Terminology. For Book Classification see 029.

113 Cosmology.

114 Space.

115 Time.

116 Motion.

117 Matter.

118 Force.

119 Quantity. Number.

120 Other Metaphysical Topics.

121 Theory of Knowledge. Origin. Limits.

122 Causation. Cause and Effect.

123 Liberty and Necessity.

124 Teleology. Final Causes.

125 Infinite and Finite.

126 Consciousness. Personality.

127 Unconsciousness. Automata.

128 The Soul.

129 Origin of the Individual Soul.

- .1 By Special Creation.
- .2 By Inheritance. Traduction.
- .3 Pre-existence.
- .4 Transmigration. Palingenesis.
- .5 Emanation. See also 147, Pantheism.

130 Mind and Body.

131 Mental Physiology and Hygiene.

132 Mental Derangements.

- .1 Insanity.
- .2 Idiocy.
- .3 Hypochondria. Melancholy.
- .4 Catalepsy.
- .5 Ecstatics.
- .6 Kleptomania and other leading to crime.
- .7 Dipsomania and other leading to vice.
- .8 Mnemonic derangements.
  Not knowing in one state what passed in another. See 154, Memory.

133 Delusions. Witchcraft. Magic.

- .1 Apparitions. Ghosts.
- .2 Hallucinations.
- .3 Divination. Oracles. Second Sight.
- .4 Witchcraft. Sorcery.
- .5 Astrology. See also 520.1, Astrology.
- .6 Palmistry.
- .7
- .9 Spiritualism. Table-tipping, etc.

134 Mesmerism. Animal Magnetism. Clairvoyance.

135 Sleep. Dreams. Somnambulism.

136 Mental Characteristics.

As Influenced by

- .1 Sex.
- .2 Physical Surroundings.
- .3 Ancestry (Mental Heredity).
- .4 Race. Racial Characteristics.

137 Temperaments.

138 Physiognomy.

139 Phrenology. Mental Photographs, etc.

140 Philosophical Systems.

The heads 140–149.9 are for the discussion of the systems as such. The philosophical works of authors of these various schools are classed under 190, not here. From these heads refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system.

141 Idealism. Transcendentalism.
e. g. Plato. Berkeley. Fichte. Emerson.

142 Critical Philosophy. e. g. Kant.

143 Intuitionalism. e. g. Reid. McCosh.

144 Empiricism. e. g. Descartes. Bacon.

145 Sensationalism. e. g. Locke.

146 Materialism. Positivism. e. g. Hobbes. Comte.

147 Pantheism. Monism. e. g. Spinoza.

148 Eclecticism. e. g. Cousin.

149 Other Philosophical Systems.
See 211, Rationalism, Scepticism; 214, Fatalism.

- .1 Nominalism.
- .2 Realism. See 146.
- .3 Mysticism.
- .4 Associationalism.
- .5 Optimism. Meliorism.
- .6 Pessimism.
- .7 Agnosticism. See 273.8, Agnostic heresy.
- .8 Nihilism.
- .9 Other Systems.

150 Mental Faculties.

151 Intellect. Capacity for Knowing.

152 Sense. Sense Perceptions.

Passive or Receptive Faculty.

.1 Vision.
.2 Hearing.
.3 Smell.
.4 Taste.
.5 Touch.
.6 Muscular Sense.

153 Understanding.

Active or Thinking Faculty.

.1 Conception. The Concept or Notion.
.2 Association.
.3 Abstraction.
.4 Reflection.
.5 Judgment.
.6 Reasoning. Induction and Deduction. See 160, Logic.

154 Memory.

.1 Mnemonics.

155 Imagination. Creative Power.

.1 Fancy. Imaging Power.

156 Intuitive Faculty. Reason. For Reasoning, see 153.6.

157 Sensibility. Emotions. Affections.

158 Instincts. Appetites.

159 Will.

160 Logic. For Logic of Chance, see 519, Probabilities.

161 Inductive.

162 Deductive.

163 Assent.

164 Symbolic. Algebraic.

Logical Topics.

165 Sources of Error. Fallacies.

166 Syllogism. Enthymeme.

167 Hypotheses.

168 Argument and Persuasion.

169 Analogy. Correspondence.

170 Ethics.

171 Theories. Philosophy of Ethics.

.1 Authority. Will of God. Christian.
.2 Intuition. Moral Sentiment.
.3 Perfection.
.4 Happiness. Hedonism.
.5 Utilitarianism.
.6 Casuistry. Conscience.
.7 Evolutionary or Educational.
.8 Altruism.
.9 Egoism.

172 State Ethics.

.1 Individuals and the State. Duties of Citizens. Patriotism. See 320.
.2 Duties of Public Officers.
.3 Relations to Church. See 261.7, Liberty. See 272, Persecutions.
.4 International Ethics. Peace and War. See 341.
.5
.6
.7
.8
.9

173 Family Ethics.

.1 Marriage and Divorce.
.2 Polygamy and Monogamy. See 298, Mormonism.
.3 Duties of Husbands and Wives.
.4 Infanticide.
.5 Duties of Parents.
.6 Duties of Children.
.7 Home Life.
.8 Masters and Servants. See 647, Servants.
.9

174 Professional and Business Ethics.

.1 Clergy.
.2 Physicians.
.3 Lawyers.
.4 Merchants. Business Men.
.5 Speculation.
.6 Gambling. See 175.6.
.7 Compact. Promise.
.8 Employers and Employed.
.9

175 Ethics of Amusements.

.1 Public Shows and Diversions. Rinks, Circuses, etc.
.2 Theater. Opera. Private Theatricals.
.3 Dancing. Balls. Round Dances.
.4 Games of Skill. Billiards, Chess, etc.
.5 Games of Chance. Cards, Dice, etc.
.6 Prize Fighting. Animal Fighting. Bull, Dog, Cock, etc.
.7 Racing. Horse. Boat. Pedestrian. Wheel, etc.
.8 Novel Reading.
.9 Betting. Poolselling. See 174.6.

176 Sexual Ethics.

.1 Chastity.
.2 Celibacy. See 254, Celibacy of Clergy.
.3 Continence.
.4 Solitary Vice.
.5 Social Evil.
.6 Adultery.
.7 Immoral Art.
.8 Immoral Literature.
.9

177 Social Ethics.

.1 Courtesy. See Etiquet, 395.
.2 Conversation. Gossip. See also 374.1, Self-culture.
.3 Truth. Slander. Flattery.
.4 Dress. Display. Sumptuary Legislation.
.5 Caste. Class Feeling. Wealth and Rank.
.6 Friendship. Courtship. Coquetry.
.7 Philanthropy. Humanity.
.8 Solitude vs. Social Obligations.
.9

178 Temperance. Stimulants and Narcotics.

General works on Temperance may be divided by form into .04, Essays; .05, Periodicals; .06, Societies; .07, Teaching; .09, History.

.1 Use of Intoxicating Drinks. Beer Drinking. Medicinal Use.
.2 Total Abstinence vs. Temperance.
.3 Social Drinking. Wine at Table. Treating.
.4 Traffic in Intoxicating Drinks. License. High License.
.5 Prohibition.
.6 Reformatories. Inebriate Asylums, etc. See 362.
.7 Tobacco.
.8 Opium. Hasheesh. Chloral. Ether and other Drugs.
.9 Gluttony and other Intemperance.

179 Other Ethical Topics.

.1 Morals of the Press. Newspapers.
.2 Cruelty to Children. See 173.4.
.3 Cruelty to Animals.
.4 Vivisection.
.5 Oaths.
.6 Heroism. Bravery. Cowardice.
.7
.8
.9

180 Ancient Philosophers.

See 921.9, Biography of Ancient Philosophy.

181 Oriental Philosophers.

.1 Chinese. Confucius. Mencius.
.2 Egyptian.
.3 Jewish. Kabala. Philo. Maimonides.
.4 Indian. Gymnosophists.
.5 Persian. Sufism.
.6 Chaldæan.
.7 Sabeism.
.8 Phœnician.
.9 Syrian.

182 Early Greek Philosophers.

.1 Ionic. Thales. Anaximander. Anaximenes
Materialistic. Things are as they seem.
.2 Italic or Pythagorean. Half Idealistic.
.3 Eleatic. Xenophanes. Parmenides. Zeno.
Idealistic. Existence denied. Thought is the only reality.
.4 Heraclitus.
.5 Empedocles.
.6 Atomistic.
.7 Democritus.
.8 Anaxagoras.
.9 Other Early Greek.

183 Sophistic and Socratic Philosophers.

.1 Sophistic. Protagoras. Gorgias. Prodicus. Hippias.
.2 Socrates.
.3 Socratic.
.4 Cynic. Antisthenes, Diogenes, Crates, etc.
.5 Cyrenaic. Aristippus, Hegesias, etc.
.6 Megaric. Euclid, Eubulides, Diodorus, etc.
.7 Elian and Eretrian. Phedo, Menedemus, etc.

184 Platonic. Older Academy.

.1 Plato. .2 Speusippus. .3 Xenocrates.

185 Aristotelian. Peripatetic. Lyceum.

.1 Aristotle. .2 Theophrastus. .3 Eudemus. .4 Strato.

186 Pyrrhonist. New Platonist.

.1 Pyrrhonism. Scepticism. Pyrrho, Timon.
.2 New Academy. Arcesilaus, Carneades. Plutarch.
.3 Eclecticism. Cicero.
.4 Alexandrian. Neo-Platonic. Philo, Plotinus, Proclus, Porphyry, Iamblichus.

187 Epicurean. Epicurus. Lucretius.

188 Stoic.

.1 Zeno.
.2 Cleanthes.
.3 Chrysippus.
.4 Panactius.
.5 Posidonius.
.6 Seneca.
.7 Epictetus.
.8 Marcus Aurelius.

189 Early Christian and Medieval Philosophers.

.1 Gnosticism. See 273.1, Basilides, Marcion. See 273.2, Manicheism.
.2 Patristic. Tertullian. Augustine. Clement. Origen.
.3 Arabian. Avicenna, Averroes.
.4 Scholastic. Scotus, Aquinas, Anselm, Abelard.
.5 Mystic. Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme.

190 Modern Philosophers.

See also 921.1 to 921.8, Biography of Philosophy, or lives may be put here with works, with references only under 920, Biography. Philosophical works are put here, not under the School or System to which the author may be thought to belong. See note under 140.

191 American Philosophers.

These numbers may be left blank for future use or used for the well known names among American Philosophical writers given below.

.1	Jonathan Edwards.	1703–1758.
.2	O. A. Brownson.	1803–1876.
.3	Ralph Waldo Emerson.	1803–1882.
.4	Laurens P. Hickock.	1798–
.5	James McCosh.	1811–
.6	Noah Porter.	1811–
.7	Francis Bowen.	1811–
.8	William T. Harris.	1835–
.9	Other American Philosophical Writers.	

192 British Philosophers.

.1	Bacon.	1561–1626.
.2	Locke.	1632–1704.
.3	Berkeley.	1684–1753.
.4	Hume.	1711–1776.
.5	Reid.	1710–1796.
.6	Dugald Stewart.	1753–1828.
.7	John Stuart Mill.	1806–1873.
.8	Spencer.	1820–
.9	Other British Philosophical Writers.	

193 German Philosophers.

.1	Leibnitz.	1646–1716.
.2	Kant.	1724–1804.
.3	Fichte.	1762–1814.
.4	Schelling.	1775–1854.
.5	Hegel.	1770–1831.
.6	Schleiermacher.	1768–1834.
.7	Schopenhauer.	1788–1860.
.8	Lotze.	1817–1882.
.9	Other German Philosophical Writers.	

194 French Philosophers.

.1	Descartes.	1596–1650.
.2	Malebranche.	1638–1715.
.3	Condillac.	1715–1780.
.4	Rousseau.	1712–1778.
.5	Diderot.	1713–1784.
.6	Lamennais.	1782–1854.
.7	Cousin.	1792–1867.
.8	Comte.	1798–1857.
.9	Other French Philosophical Writers.	

195 Italian Philosophers.

196 Spanish Philosophers.

197 Slavic Philosophers.

198 Scandinavian Philosophers.

199 Other Modern Philosophers.

Religion.

200 Religion. General Works.

201 Philosophy. Theories. Methods.

202 Compends. Outlines. Systems.

203 Dictionaries. Cyclopedias.

204 Essays. Lectures. Disputations. Addresses.
See 252, Sermons.

205 Periodicals. Magazines. Reviews.

206 Societies. Transactions. Reports, etc.

207 Education. Theological Seminaries. Training Schools. See 377.

208 Polygraphy. Collected Works. Extracts, etc.

209 History of Theology.

210 Natural Theology.

211 Deism and Atheism.
Scepticism. Infidelity. Rationalism, etc.
See 239, Apologetics; 231, God; 273.8, Agnosticism.

212 Pantheism. Theosophy. See 147, Pantheism.

213 Creation. Evolution. See 575, Evolution.

214 Providence. Theodicy.

215 Religion and Science. See 239.8, Apologetics.

216 Evil. Depravity. See 149.6, Pessimism, and 233, Sin.

217 Prayer. Prayer Gauge. See 264.1, Prayer.

218 Future Life. Immortality. Eternity.
See 237, Future State; 128, The Soul.

219 Analogies. Correspondences. See also 169.

220 Bible. General Works.

For similar works limited to Old or New Testament, or individual works, see specific head below.

.1 Canon. Inspiration. Prophecy.

.2 Concordances. Analyses.

.3 Dictionaries. Cyclopædias.

.4 Original Texts and Early Versions. Codices.

.42, Chaldee; .43, Syriac; .44, Hebrew; .45, Samaritan; .46, Other Semitic. Ethiopic. Arabic, etc.; .47, Latin. Itala. Vulgate; .48, Greek Septuagint. Aquila. Symmachus. Theodotian. Hexapla; .49, Other early Versions. Armenia. Coptic. Gothic, etc.

.5 Versions of Bible. Polyglots. Divided by Languages, like 400.

.6 Hermeneutics. Exegesis.

.7 Commentaries on whole Bible, and Annotated Editions.

For Notes, etc., on Portions of the Bible, see the most specific head in 221-229.

.8 Special Topics.

Divided like General Classification, e. g., Natural Science of the Bible is 220.85.

.9 Biblical Geography and History.

.91, Biblical Geography, Description, etc.; .92, Scriptural Biography, see also 922.1; .93, Antiquities, Archæology, see also 296 and 933; .94, Chronology; .95, History.

221 Old Testament. Texts. Introductions, etc.

222 Historical Books.

.1 Pentateuch.

.11 Genesis. .12 Exodus. .13 Leviticus. .14 Numbers. .15 Deuteronomy.

.2 Joshua.

.3 Judges and Ruth.

.4 Samuel.

.5 Kings.

.6 Chronicles.

.7 Ezra.

.8 Nehemiah.

.9 Esther.

223 Poetical Books.

.1 Job.

.2 Psalms.

.3 Authorship and Chronology.

.4 Special Groups.

Messianic; Greater Hallel; Lesser Hallel; Vesper Psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic Five Books, Ps. 1-41; 42-72; 73-79; 60-106; 107-150.

.5 Liturgic Use by Christians.

.6 Commentaries on Psalms.

.7 Proverbs.

.8 Ecclesiastes.

.9 Song of Solomon or Canticles.

224 Prophetical Books.

.1 Isaiah.

.2 Jeremiah.

.3 Lamentations.

.4 Ezekiel.

.5 Daniel.

.6 Hosea.

.7 Joel.

.8 Amos.

.9 Other Minor Prophets.

.91 Obadiah.

.92 Jonah.

.93 Micah.

.94 Nahum.

.95 Habakkuk.

.96 Zephaniah.

.97 Haggai.

.98 Zechariah.

.99 Malachi.

225 New Testament. Texts, Introductions, etc.

226 Gospels and Acts.

.1 Harmonies.

.2 Matthew.

.3 Mark.

.4 Luke.

.5 John.

.6 Acts of the Apostles.

227 Epistles.

.1 Romans.

.2 1 Corinthians.

.3 2 Corinthians.

.4 Galatians.

.5 Ephesians.

.6 Philippians.

.7 Colossians.

227.8 Other Pauline Epistles.

.81 1 Thessalonians.
.82 2 Thessalonians.
.83 1 Timothy.
.84 2 Timothy.
.85 Titus.
.86 Philemon.
.87 Hebrews.

.9 Catholic Epistles.

.91 James.
.92 1 Peter.
.93 2 Peter.
.94 1 John.
.95 2 John.
.96 3 John.
.97 Jude.

228 Apocalypse.

229 Apocrypha.

.1 Esdras 1, 2.
.2 Tobit, Judith, Esther.
.3 Wisdom.
.4 Ecclesiasticus.
.5 Baruch, Epistle of Jeremy, Song of the three Children.
.6 Story of Susanna, History of Bel and the Dragon, Prayer of Manasses.
.7 Maccabees 1, 2, 3.
.8 Pseudo Gospels.
.9 Apostolic Epistles and Canons. Clementines.

230 Doctrinal. Dogmatics.

General Doctrinal Works may be subdivided by churches like 280.

231 God. Unity. Trinity.

.1 God the Father, Creator.
.2 God the Son, Redeemer.
.3 God the Holy Ghost, Giver of Life, Sanctifier.
.4 Divine Attributes. Omniscience, Omnipresence, Omnipotence.
.5 Divine Providence.
.6 Divine Love and Wisdom.
.7 Divine Law and Miracles.
.8 Theodicy.
.9

232 Christology.

.1 Incarnation. Messiah.
.2 Logos, the Word of God.
.3 Atonement.
.4 Sacrifice.
.5 Resurrection.
.6 Second Coming.
.7 Judgment.
.8 Divine Humanity.
.9 Lives of Christ.

233 Man.

.1 The Fall.
.2 Sin.
.3 Moral and Spiritual Heredity. See Biology, 575.1.
.4 Accountability.
.5 Natural and Spiritual Body.
.6 Personality.
.7 Freedom.
.8
.9

234 Salvation. Soteriology.

.1 Grace.
.2 Faith.
.3 Redemption.
.4 Regeneration.
.5 Repentance.
.6 Obedience.
.7 Justification.
.8 Sanctification.
.9 Predestination and Freewill.

235 Angels. Devils. Satan.

236 Eschatology. Last Things.

.1 Death.
.2 Resurrection.
.3 Millennium.
.4 Intermediate State.
.5 Purgatory.
.6 Paradise.
.7 Limbo.
.9 Judgment.

237 Future State.

.1 Eternity.
.2 Immortality.
.3 Conditional Immortality.
.4 Heaven.
.5 Hell. Sheol.
.6 Retribution. Future Punishment.
.7 Eternal Punishment. See 289.1.

238 Creeds. Confessions. Covenants.

.1 Apostles', Nicene, and Athanasian Creeds.
.2 Creed of Pius IV. (Trent); and later Roman.
.3 Anglican. 39 Articles, A. D. 1551.
.4 Continental Prot. Lutheran. Calvinist. Dort.
.5 Westminster. Saybrook. Cambridge. Savoy.
.6–9 Of other Sects. Divided like 280.

239 Apologetics.

If preferred, courses of Apologetic lectures may be kept together; e. g., 239.01, Bampton; .02, Boyle; .03, Hulsean; .04, Bohlen; .05, Paddock. More usefully each book is classed under the most specific head that will contain it.

.1 Apostolic Age.
.2 Against the Jews.
.3 Against the Heathen.
.4 Against the Neo-Platonists. See Gnostics, 273.1.
.5 Against the English and Scotch Deists.
.6 Against the French Encyclopedists.
.7 Against the Rationalists.
.8 Against the Scientists.
.9 Other Special Denials.

240 Devotional. Practical.

241 Didactic. For Catechisms, see 238.

242 Meditative. Contemplative.

243 Hortatory. Evangelistic.

244 Devout Miscellany. Religious Novels, Allegories, etc.

245 Hymnology. Religious Poetry.

May be divided by Languages, like 400, or by Churches, like 280.

246 Ecclesiology. Symbolism. Religious Art.

.1 Byzantine and Gothic Ecclesiology. See 726, Architecture.
.2 Primitive Church and Heathen Art.
.3 Images in Churches. Iconoclasts.
.4 Protestantism and Religious Art.
.5 Emblematic and Cryptographic Art. Catacomb Symbols.
.6 Liturgic Symbolism. Altar. Colors. Lights. See 264.
.7 Evangelistic Use of Music and Art, pictorial and plastic. Della Robbias.
.8 Eucharistic Music. Ambrose. Gregory the Great. Later Development. See 783, Sacred Music.
.9

247 Sacred Furniture. Vestments. Vessels. Ornaments, etc.

.1 Font. Baptistery. Lectern. Pulpit.
.2 Tabernacle. Rood Screen. Reredos.
.3 Sculpture and Mortuary Design. See 730, Sculpture.
.4 Illumination. Mosaics. Enamels. Stained Glass. See 745.
.5 Fresco and Religious Painting. See 750, Design.
.6 Pallium. Mitre. Crozier. Ring.
.7 Vestments and Altar Cloths.
.8 Eucharistic Vessels. See 265.3.
.9 Ornaments, etc. Crucifix. Banners. Thurible. Incense.

248 Personal Religion. Asceticism.

249 Family Devotions.

250 Homiletic. Pastoral. Parochial.

251 Homiletics. Preaching.

252 Sermons.

The collected Sermons on various topics under 252 may be divided by languages, like 400, or by Churches and Sects, like 280. The sermons on specific topics are more useful, like other pamphlets, classed with the topics, e. g., a Sermon on Family Devotions is under 249, not 252. The nine heads below are for matter *about* these special kinds of sermons, and for sermons themselves if the classifier prefers.

.1 Episcopal Charges. Pastorals.
.2 Controversial. Polemic.
.3 Doctrinal. Dogmatic.
.4 Practical. Devotional.
.5 Academic. Educational.
.6 Political. Public Occasions and Duties.
.7 Consecration. Ordination.
.8 Expository.
.9 Memorial. Obituary. Biographical. Historical.

253 Pastoral Visitations, Evangelistic.

254 Clerical Support. Celibacy.

255 Brotherhoods. Sisterhoods.

256 Societies for Parish Work. Guilds. Sodalities.

257 Parochial Schools, Libraries, etc.

258 Parish Care of Sick, Fallen, etc.

259 Other Ministrations and Work.

260 Church. Institutions and Work.

261 The Church.

.1
.2
.3 Church vs. Barbarism.
.4 Church and Morals.
.5 Church and Intellectual Development.
.6 Church and Civilization.
.7 Church and Civil Government.
.8 National Churches vs. Organic Unity.
.9

262 Ecclesiastical Polity.

.1 Ministry.
.11 Apostolic Succession.
.12 Episcopate.
.13 Papacy. Primacy.
.14 Priest. Presbyter. Minister. Lay Ministry.
.15 Deacon. Deaconess. Evangelist.
.16 Orders. Ordination.
.17 Episcopal.
.18 Presbyterian.
.19 Congregational.
.2 Parish. Congregation.
.3 See. Diocese. Cathedral System.
.4 Council. Synod. Presbytery. Congregation. Convention.
.5 General or Œcumenical Council. See also 270.2.
.6 Canons. Decrees.
.7 Traditions.
.8 Authority. Church and Ministerial. Private Judgment.
.9 Discipline. Courts. Trials.

263 Sabbath. Lord's Day. Sunday.

.1 Hebraic Sabbath.
.2 Modern Sabbath.
.3 Lord's Day. Christian Sunday.
.4 Sunday Observance.
.5 Work.
.6 Amusement.
.7 Opening Libraries and Museums.
.8 Sunday Laws.
.9

264 Public Worship. Divine Service. Ritual.

General Works are divided by Churches like 280. Under various Churches the services may be further divided, as, e. g.

.03 Anglican and American P. E. Ritual.
.031 Calendar. Festivals and Feasts.
.032 Lectionary and Rubrics.
.033 Morning Prayer. Litany.
.034 Evening Prayer. Vespers. Compline.
.035 Sacraments, Ordinances and Services.
.036 Collects, Epistles and Gospels.
.037 Ordinal. Articles. Creeds.
.038 Psalter and Other.
.039 History of successive Prayer Books.

264.1 Prayer. Extempore. Liturgic.
See also 248–249, Private and Family Prayer.

.2 Music. Singing. Instrumental. Praise Meeting.
See also 783, Sacred Music.

.3 Scripture Readings.

.4 Antiphonal or Responsive Readings.

.5 Confessions of Faith. Creeds. See also 238, Creeds.

.6 Sermons. Exhortations. Instructions.
See also 251 and 252, Preaching and Sermons.

.7 Prayer and Conference Meetings.

.8 Class and Covenant Meetings. Love Feasts.

.9 Sacramentals. See also 265, Sacraments.

265 Sacraments. Ordinances.

.1 Baptism.

.2 Confirmation. Church Fellowship.

.3 Eucharist. Holy Communion. Sacrifice.

.4 Holy Orders. Ordination.

.5 Marriage. See 173, Ethics of the Family.

.6 Penance. Confession. Absolution.

.7 Extreme Unction. Viaticum.

.8 Ministry of Sick and Dead. Faith Cure. Healing. Burial.

.9 Consecration. Dedication. See 262.16, Ordination.

266 Missions. Home and Foreign.

Subdivided by Churches, like 280.

Missions in special countries or places, including those of all churches, go under the geographically divided Religious History, 274–279, with references under 266.

267 Associations. Y. M. C. A., etc.

268 Sunday Schools.

269 Revivals. Retreats. Parish Missions.

270 Religious History.

Ancient Period. To Conversion of Germans.

.1 Apostolic. Nativity to Constantine.

.2 Œcumenical Councils. Centralization. A. D. 325–787.
The Greek Church acknowledges these seven Councils as really Œcumenical. Anglicans generally recognize only the first six.

.21 First of Nice, A. D. 325.
.22 First of Constantinople, 381.
.23 First of Ephesus, 431.
.24 Chalcedon, 451.
.25 Second of Constantinople, 533.
.26 Third of Constantinople, 681.
.27 Second of Nice, 787.

Mediæval Period. Charlemagne to Luther.

270.3 Charlemagne. Papacy vs. Empire. A. D. 787–1054.
Church planted among the Germans. Feudalism.

.4 Hildebrand. Roman Supremacy. A. D. 1054–1200.
Temporal Power. Scholasticism. First three Crusades.

.5 Later Mediæval. Renaissance. A. D. 1200–1517.
Innocent III. Papal Schism. Avignon. Nominalism *vs.* Realism. Greek Church under Moslems. Education. Arts. Inventions. Pre-Reformation.

Modern Period. Reformation to present.

From A. D. 1517, Theology in Europe is in three types, viz.: Roman, Lutheran, and Reformed or Calvinistic.

.6 Reformation. Counter-Reformation. A. D. 1517–1648.
Council of Trent, A. D. 1545–93. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious Wars. Jesuit Missions in East.

.7 Peace of Westphalia to French Revolution. A. D. 1648–1789.
Union of Church and State. Deism. Materialism.

.8 Modern. Rationalistic.
Holy Alliance. Greek Church in Russia. Atheism. Pantheism. Protestant Missions.

271 Monastic Orders.

.1 Benedictines. Founded A. D. 592.
.2 Dominicans. ,, ,, 1170.
.3 Franciscans. ,, ,, 1182.
.4 Augustinians. ,, ,, 1256.
.5 Jesuits. ,, ,, 1540.
.6 Passionists. 1720. Redemptorists. 1732.
.7 Lesser Roman Orders.
.71 Carthusians. Founded A. D. 1086.
.72 Cistercians. ,, ,, 1098.
.73 Carmelites. 12th Century.
.74 Trappists. 1150. Capuchins. 1525.
.75 Sulpicians. 1642.
.76 Oblates.
.77 Lazarists. 1624.
.78 Christian Brothers. 18th Century. De la Salle.
.79 Other Lesser Roman Orders.
.8 Anglican Brotherhoods.
.9 Sisterhoods.
.91 Sisters of Charity. Vincent de Paul. Founded A. D. 1620.
.92 Sisters of Mercy. Augustinian. ,, ,, 1831.
.93 Ladies of the Sacred Heart. Jesuit. ,, ,, 1800.
.94 Sœurs de bon Secours. Nurses.
.95 Little Sisters of the Poor.
.96 Contemplative. Cloistered Nuns.
.97 Other Roman Sisterhoods.
.971 Carmelites.
.972 Second of St. Dominick.
.973 Franciscans.
.974 Ursulines. A. D. 1537.
.975 Of the Visitation. ,, 1610.
.976 Of St. Joseph. ,, 1650.
.977 Of the Presentation. ,, 1777.
.98 Anglican Sisterhoods.
.99 Other Protestant Orders. Deaconesses. (Kaiserwerth.)

272 Persecutions.

.1 Apostolic Church by Imperial Rome. 1st to 4th Century.

.2 Heretics, by Inquisition or Holy Office. Since 1470. „

.3 Waldenses and Albigenses. 11th and 12th Cent. By R.Ch.

.4 Hugenots. French Protestants. St. Bartholomew, 1572. Edict Nantes, 1598, Revocation, 1685. By Rom. Ch.

.5 Molinists and Quietists. Close of 16th Century to destruction of Port Royal, A. D. 1709. By Roman Catholics.

.6 Marian. Anglican Reformers by Mary. A. D. 1553–8. „

.7 Elizabethan. Later 16th Century. Rom. Ch. by Anglicans.

.8 Quakers. Baptists. Witches. Later 17th Cty. By Puritans.

.9 Other Persecutions.

273 Heresies.

For the history of special Doctrines see 230–239, Doctrinal Theology.

.1 Gnostic.—Reaction of Pantheism and Heathen Philosophy on Christianity. 1st three Centuries.

.2 Manichæism.—Parsee Dualism. Opposition of Good and Evil. Mystic. Ascetic. 3d Century.

.3 Sabellian.—That the Trinity is not of persons, but of successive manifestations. About 250 A. D. (Held by Schleiermacher, Bushnell, Swedenborg.)

.4 Arian.—Denying Divinity of Christ. 4th Century.

.5 Pelagian.—Denying Original Sin and Supernatural Grace. 5th Century.

.6 Antinomian.—Denying force of Law, under Gospel Dispensation. 16th Century.

.7 Molinist and Jansenist. Pietists. Port Royal.—Augustine's doctrine of Grace, vs. the Roman doctrine of Good Works. A. D. 1580–1700.

.8 Agnostic.—Denying possibility of Revelation. Holding that Theology and the Supernatural lie without the domain of Human Knowledge.

.9 Minor Heresies.

274 to 279 General Religious History. By Countries.

274–279 is divided geographically like 940–999.

280 Christian Churches and Sects.

281 Primitive and Oriental Churches.

See also 270.1 to 270.3, Early Religious History.

.1 Apostolic Church, to time of Great Schism, A. D. 1054.

Works of Apostolic and Christian Fathers.

.2 Primitive Apostolic, to end of First Century.

.3 Ante-Nicene, A. D. 100–325. See also 270 1.

.4 Post-Nicene, A. D. 325–1054. See also 270.2–3.

.5 Oriental Churches.

.6 Armenian.

.7 Coptic.

.8 Nestorian.

.9 Eastern or Græco-Russian or Holy Orthodox Church.

The Great Schism, Mutual Ex-communication, A. D. 1054, separates the Catholic Church into Eastern and Western Churches, which from this time have separate histories.

282 Western or Roman Catholic Church.

Divided geographically like 940–999.

283 Anglican and American P. E. Church.

Divided geographically, when needed, like 940–999, e. g., The Anglican Church in Australia is 283.94.

284 Continental Protestant Sects.

.1 Lutheran. Reformed.

.2 Calvinist; Zwinglian. See 285, and 286.1.

.3 Hussites. Anabaptists. Leyden. See 286.1.

.4 Albigenses. Waldenses. Vaudois. See 272.3.

.5 Huguenots. See 272.4.

.6 Moravian.

.7 Scandinavian. Swedish.

.8 Old Catholic.

Here are classed those denying Papal Infallibility, or for other cause cut off from Rome, though Catholic in other respects.

.9 Other.

285 Presbyterian. Reformed. Congregational.

.1 Presbyterian Church in America.

.2 Presbyterian Church in Great Britain.

.3 Cumberland Presbyterian.

.4 United Presbyterian.

.5 Reformed Presbyterian

.6 Minor Presbyterian Sects.

.7 Reformed (Dutch) Church in America.

.8 Congregational.

.9 Puritanism.

286 Baptist.

.1 Calvinistic. .2 Free Will. .3 Seventh Day.

287 Methodist.

.1 Wesleyan Methodist.
.2 Calvinistic Methodist.
.3 Welsh Calvinistic Methodist.
.4 Primitive Methodist.
.5 Primitive Wesleyan.
.6 Methodist Episcopal.
.7 Protestant Methodist.
.8 African Methodist.
.9 Minor Methodist Sects.

288 Unitarian. See 273.4.

289 Minor Christian Sects.

.1 Universalist.
.2 Campbellite or Christian.
.3 Adventist.
.4 New Church or Swedenborgian.
.5 Catholic Apostolic.
.6 Quakers. Friends.
.7 Mennonite.
.8 Shaker. Mystic.
.9 Other Minor Christian Sects.

290 Ethnic. Non-Christian.

291 Comparative and General Mythology.

292 Greek and Roman Mythology.

293 Teutonic and Northern Mythology.

294 Brahmanism. Buddhism. For other Indic Religions, see 299.1.

295 Parseeism. Zend Avesta. For other Iranic Religions, see 299.15

296 Judaism. For other Semitic Religions, see 299.2.

297 Mohammedanism.

298 Mormonism. See 173.2, Poygamy.

299 Minor Non-Christian Religions.

Subdivided ethnically like 491–499.

Sociology.

300 Sociology in General.

301–309 all have Sociology in General as their subject, but it is treated in these various forms. A periodical on Law goes with 340.5, not 305, which is only for periodicals on Sociology in General. In Sociology, most works in these forms are limited to one Division, e. g. to Political Economy, Education, Law, etc. All these have the same subdivision of General Works, i. e. Essays on the various Divisions are 310.4, 320.4, 330.4, and so on to Essays on Manners and Customs in General, 390 4. A Zero in any class number shows the subject to be general, not specific.

301 Philosophy of Civilization. Theories.

See Philosophy of History, 901.

302 Compends, Outlines.

303 Dictionaries, Cyclopedias, etc.

304 Essays, Lectures, Addresses.

305 Periodicals, Magazines, Reviews.

306 Societies, Transactions, Reports.

307 Education, Teaching, Study, etc. See also 370.

308 Polygraphy, Collected Works, Extracts, etc.

309 History of Social Science.

310 Statistics.

311 Theory, Methods. Science of.

312 Population. Progress of. Vital Statistics. Births. Deaths. Mortality. Longevity.

313 Special Topics.

314 to 319 General Statistics. Divided geographically like 940–999.

The Statistics of any special matter are put with the subject, e. g. of Domestic Animals in 636, of Short Hand in 653. of French Novels in 843. of Theaters in 792, etc Statistics too general to be included in any topic are divided by countries. The statistics of New York City would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine, i. e , the Topic outranks the Locality.

320 Political Science.

.01, Theory of the State; .02, Compends, Statecraft; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History of Political Science.

321 Form of State.

.1 Family. Patriarchal Age.
.2 Tribes. Clans. Marks. Village Communities.
.3 Feudalism.
.4 Democracy.
.5 Aristocracy. e. g. Italian Republics. Mediæval German Cities.
.6 Absolute Monarchy.
.7 Constitutional Monarchy.
.8 Republic.
.9

322 Church and State.

323 Internal or Domestic Relations.

324 Suffrage.

.1 Qualifications. Age. Property. Education. Color. Race, etc.
.2 Forms of Suffrage. Universal. Limited. Minority Representation. Class System. Cumulative, etc.
.3 Woman Suffrage.
.4–9 In Special Countries. Divided like 940–999.

325 Colonies and Immigration.

.1 Immigrants and Naturalization.
.2 Emigrants.
.3 Colonization.
.4–9 In Special Countries. Divided like 940–999.

326 Slavery.

.1 Slave Trade.
.2 Coolies and Contract Slaves.
.3 Serfs and Serfdom.
.4 Anti-Slavery Documents.
.5 " Societies.
.6 " Periodicals.
.7 Pro-Slavery.
.8 Emancipation and Freedom.
.9 History of Slavery. Divided geographically like 940–999.

327 Foreign Relations. Divided geographically like 940–999.

328 Legislative Bodies and Annals.

.1 Parliamentary Law.
.2
.3
.4–9 Of Special Countries.
Divided by countries like 940–99, and under each, works may be divided: .1, Journals; .2, Debates; .3, Abstracts; .4, Documents; .5, Legislative; .9, History of Bodies.

329 Political Parties. Party Conventions.

329.01, U. S. Presidential campaign documents of all parties, arranged by campaigns.

.1 Federal.
.2 Anti-Federal.
.3 Democratic.
.4 Whig.
.5 American. Know-nothing.
.6 Republican.
.7
.8 Minor Parties.
.81, Prohibition; .82, Greenback; .83, Woman Suffrage; .84, People's; .85, Labor.
.9 Parties in other Countries. Divided geographically like 940–999.

330 Political Economy.

.1, Theories; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Polygraphy; .9, History.

331 Capital. Labor and Wages.

.1 Relations of Capital to Labor.
.2 Wages. Comparative Wages. Profit Sharing. Compulsory Insurance.
.3 Labor of Children.
.4 Labor of Women.
.5 Convict Labor. Prison Contracts.
.6 Pauper Labor. Cheap Foreign Labor. Chinese.
.7 Skilled and Unskilled Labor.
.8 Laboring Classes.
.81 Hours of Labor.
.82 Places of Labor. Dangers.
.83 Food. Clothes. Shelter.
.84 Morals and Habits. Thrift. Temperance. Amusements. Temptations.
.85 Helps. Lectures. Libraries. Reading Rooms, etc. See 021.1; 027.6.
.86 Training. Apprenticeship.
.87 Organization of Labor.
.88 Trade Unions and other Labor Societies.
.89 Strikes.

332 Banks. Money. Credit. Interest

.1 Banks and Banking.
.2 Savings Banks.
.3 Loan Institutes.
.31 Credit Institutes.
.32 Building Associations. See 334, Co-operation.
.33 Monts de Piété. Governmental.
.34 Pawn Shops. Private.
.4 Coins and Coinage. Mints.
.41 Coinage Metals. Production and Value. Gold. Silver. Nickel. Copper.
.42 Single and Double Standard.
.43 International Standards.
.44 Monetary Congresses.
.45 Comparative Value of Moneys.
.46 Mints.
.47 Coinage Laws.
.48
.49 History of Mints and Coinage. Divided geographically like 940–999.
.5 Paper Money. Public and Private Notes.
.6 Stocks and Stock Exchanges.
.7 Credit. Credit System.
.8 Interest and Usury.
.9 Counterfeiting. Forging. See 343, Criminal Law.

333 Land. Ownership, Rights, and Rent.

See 338, Production; and 630, Agriculture.

.1 State Ownership.
.2 Community Ownership.
.3 Private Ownership.
.4 Absentee Owners. Alien Owners.
.5 Rent of Land for Cultivation.
.6 „ „ Building.
.7 Forests.
.8 Mines.
.9 Fisheries.

334 Co-operation.

.1 Building Societies. Loans. Organization.
.2 Co-operative Banks.
.3 „ Insurance Societies.
.4 „ Housekeeping.
.5 „ Consumptive Associations. Stores.
.6 „ Productive Associations. Factories.
.7 Friendly Societies.
.8 Burial Societies.

335 Socialism and Communism.

.1 English Socialism.
.2 Saint Simonism.
.3 Fourierism.
.4 Communism.
.5 German Socialism. Social Democracy.
.6 State Socialism. Socialism of the Chair.
.7 Christian Socialism.
.8
.9 Socialistic Communities.

336 Finance.

.1 State Domain and Properties.
.11 Management and Income from Rents.
.12 Sale.
.13 Land Claims.
.14 Land Grants to Railroads, Colleges, etc.
.19 State Monopolies. e. g. French State Monopoly of Tobacco Trade.
.2 Taxation.
.21 Direct.
.22 Real Estate.
.23 Personal.
.24 Income.
.25 Poll.
.26 Customs. Specific or Ad Valorem. See 337, Protection.
.27 Excise. Licenses. Liquor. Dog. Legacies. Stamp Duties.
.28 Local Taxes.
.29 Assessment and Collection of Taxes.
.3 Loans. Public Securities.
.31 Interest-bearing Securities.
.32 Floating Debt.
.33 Sinking Fund.
.34 Public Credit.
.4–9 Finance of Special Countries. Divided geographically like 940–999.

337 Protection and Free Trade.

.1 Absolute Free Trade. No Tariff.
.2 Free Trade, i. e. Tariff for Revenue only.
.3 Protection.
.4 Subsidies.
.5 Duties on Special Articles. Steel, Wool, etc.
.6 „ „ Raw Materials.
.7 „ „ Books and Works of Art.
.8 Duty Free Importation for Colleges, etc.
.9 Reciprocity.

338 Production. Manufacture. Prices.

.1 Agricultural Products.
.2 Mining Products.
.3 Water ,, Fish, Ice, etc.
.4 Manufactured Products. Machinery in Industry.
.5 Prices.
.6 Guilds.
.7 Corporate Industries.
.8 Monopolies.
.9 Industrial Legislation. Divided geographically like 930 999.

339 Pauperism.

340 Law.

General Works.

.1 Philosophy. Theories. Law of Nature.
.2
.3 Antiquities. Torture. Trial by Ordeal. Duel, etc.
.4 Trial by Jury.
.5 Comparative Legislation.
.6 Medical Jurisprudence.
.7 Education. Law School. Office Training.
.8 Polygraphy. Collections.
.9 Legal Anecdotes and Miscellany.

Public Law.

341 International Law.

.01, Philosophy; .02, Compends, etc., like 300.

.1 International Congresses.
Of diplomatic agents for settling International relations. Congresses on special topics go with their subjects; e. g. 332.44, on Coinage.

.2 Treaties. Texts and History.
Divided by countries publishing, like 940–999.

.3 Law of War. Captives. Neutrals.
.4 International Criminal Law.
.5 International Private Law.
.6 Arbitration.

342 Constitutional Law.

Divided by countries like 930–999. Under each, works may be divided: .1 Texts of Constitution. .2 Conventions. .3 Systems.
For Administrative Law, see 350.

343 Criminal Law.

.1 Criminal Trials.
.2 Punishments.
Corporal. Death Penalty. Hard Labor. Confinement.

.3–9 Of Special Countries. Divided by countries like 930–999.
Under each country, works may be divided: 1, Penal Codes; 2, Reports; 3, Criminal Procedure; 4, Text Books and Manuals.

344 Martial Law.

Private Law.

345 American Statutes and Cases.

.1 Session Laws.
.2 Codes. Revised Statutes.
.3 Law Digests (of Statutes).
.4 Reports.
.5 Digests of Cases.

346 British Statutes and Cases.

Divided like 345.

347 Treatises. American and English Private Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies, .08, Polygraphy; .09, History.

.1 Persons. Legal Capacity.
.2 Realty.
.3 Chattels. Movables.
.4 Contracts.
.5 Torts.
.6 Family Law and Inheritance.
.7 Commercial and Maritime.
.8 Equity.
.9 Civil Trials. Procedure.
.91 Civil Trials.
.92 Pleading.
.93 Forms.
.94 Evidence.
.95 Remedies.
.96
.97 Organization of Courts.
.98 Jurisdictions.
.99 History of Special Courts.

348 Canon Law.

349 Foreign Law.

Divided like 930–999, and under each modern state divided like 345 with decimals .71 to .79 used for Treatises like 347. e. g. 349.4475 is French Law of Torts. 349.442 is French Code. Roman Law is divided:

.37 Roman Law.
.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History.
.371 Sources. Ante-Justinian.
.372 ,, Justinian.
.373 History and Criticism of Sources.
.374 Institutes. Ancient Roman Law.
.375 Pandects. Modern ,, ,,
.377 Treatises on Special Topics.
Divided like 347.

350 Administration. Military Science.

351 Civil Service.

- .1 Organization. Official Functions.
- .2 Civil Lists.
- .3 Examination.
- .4 Tenure of Office. Discipline.
- .5 Pensions.
- .6 Reform. Spoils System vs. Office-holding Class.

352 Local Government. City or Town.

For Education, see 379, Public Schools; for Libraries, see 020.

- .1 Finances.
- .2 Police.
- .3 Fire Department.
- .4 Public Health. Board of Health.
- .5 Public Buildings and Works.
- .6 Water and Sewerage Works.
- .7 Streets. Highways. Bridges. Parks.
- .8 Licenses. Hack, Huckster, Entertainment, etc.
- .9 Other Topics.

353 United States and State Government.

- .1 State Department.
- .2 Treasury ,,
- .3 Interior ,,
- .4 Post Office ,, See 383.
- .5 Judiciary ,,
- .6 War ,, See 355, Army. Military Science.
- .7 Navy ,, See 359, Navy. Naval Science.
- .8 Other ,,
- .9 State Government. Divided like 974–979.

Apply same decimals for State and Foreign Governments. For departments not here specified use .8 and .9, and any of above numbers left blank. e. g. for a State having no Navy, .7 is free for some local use.

354 Foreign States.

Divided geographically by countries like 930–999 Under each country the U. S. divisions, .1, State; .2, Treasury, etc , may be used.

355 Army. Military Science. See 625, Military Engineering.

356 Infantry.

357 Cavalry.

358 Artillery.

359 Navy. Naval Science. See 625 8, Naval Engineering.

360 Associations and Institutions.

361 Charitable.

362 Hospitals and Asylums.

For Inebriate Asylums, see 178.6, Temperance Reformatories.

- .1 Sick and Wounded. Incurables. Eye and Ear Infirmaries. Lying-in Hospitals.
- .2 Insane.
- .3 Idiotic.
- .4 Blind. Deaf. Dumb.
- .5 Paupers.
- .6 Aged.
- .7 Children. Orphans.
- .8 Foundling.
- .9

363 Political.

364 Reformatory.

365 Prisons. Discipline.

366 Secret Societies.

367 Social Clubs.

368 Insurance.

.1, Fire; .2, Marine; .3, Life; .4, Accident; .5, Animal and Crop; .6, Plate Glass; .7, Boiler; .8, Credit and Bonds; Land Titles; .9, Government Control; Commissioners.

369 Other.

370 Education.

.1, Philosophy, Theory; .2, ; .3, Dictionaries, Cyclopædias; .4, Essays, Addresses; .5, Periodicals (for College Papers, see 378); .6, Societies, Associations; .7, Education, Teachers' Institutes, Normal Schools; .8, Polygraphy; .9, History divided by countries, like 930–999.

371 Teachers, Methods, and Discipline.

.1 Teachers.

.11 Qualifications.
.12 Training.
.13 Examination. Certificates.
.14 Appointment. Tenure.
.15 Permanent Profession vs. Stepping-stone Theory.
.16 Salary and Promotion.
.17 Pensions for Teachers.
.18 Women as Teachers.
.19

.2 School Organization.

.21 Admission. Enrollment. Matriculation.
.22 Tuition Fees.
.23 Terms. Vacations. Holidays.
.24 Hours. Recess.
.25 Classes. Grades.
.26 Marking System.
.27 Examinations. Oral, Written. Cramming.
.28 Promotions.
.29 Graduation. Diplomas.

.3 Methods of Instruction.

.31 Rote or Concert Teaching.
.32 Text Books. Recitations.
.33 Lectures.
.34 Developing or Inductive Method.
.35 Art of Questioning.
.36 Topical Method.
.37 Seminary Method.
.38 Laboratory Work.
.39 Other Methods. Correspondence.

.4 Systems of Education.

.41 Bell and Lancaster, or Monitorial.
.42 Fellenberg's or Manual Labor.
.43 Military Organization.
.44 Pestalozzian.
.45 Jacotot's.
.46 Fröbel's. See 372.2, Kindergarten.
.47 "Quincy System."

.5 Government. Discipline.

.51 Rules.
.52 Attendance. Truancy. Tardiness.
.53 Rewards. Prizes.
.54 Punishment.
.55 Corporal Punishment.
.56 Confinement. Tasks.
.57 Monitors.
.58 Moral Government. Alcott.
.59 Student Self-government.

371.6 School Furniture and Apparatus.

.61 Furniture.
.62 Lavatories, etc.
.63 Globes, Maps, etc.
.64 Libraries. See 021.3.
.65 Museums.
.66 Apparatus.
.67 Laboratories.
.68 Observatories.

.7 School Hygiene.

.71 Health of Students. Over-study.
.72 Care of Eyes. Effect of Study.
.73 Care of Body. Gymnastics. Calisthenics.
.74 Recreations. Games, etc.
.75 Championship Games. Boat-races.
.79 Other Special Topics.

.8 Student Life and Customs.

See 784.6, College Songs; 378.29, College Costumes.

.81 Student Honor. Cribbing. Cheating. Keys. "Ponies."
.82 Fagging and Hazing.
.83 Student Organizations.
.84 Literary Societies.
.85 Secret Societies. See also 366, Secret Societies.
.86 Society Houses. Halls. Temples, etc.
.87 Dormitories.
.88 Commons.
.89 Customs. Celebrations. Triumphs. Burnings, etc.

.9 Education of Special Classes.

.91 Blind. See also Asylums, 362.
.92 Deaf and Dumb. See also Asylums, 362.
.93 Feeble-minded.
.94 Freedmen. Negro.
.95 Indians.
.96 Orientals.
.99 Co-education of Races.

372 Elementary Education.

.1 Special Methods of Government.

.2 Kindergarten.

.3 Observing Powers. Object Teaching. Science.

.4 Reading. Alphabet. Phonics and Word Methods.

.5 Elementary Writing and Drawing. See also 741.

.6 Elementary Grammar. Language Lessons. See also 428.2.

.7 Elementary Arithmetic. See also 511.

.8 Elementary Geography. See also 910.7.

Some may prefer to put these Elementary Text Books with their subjects, but a Primer of Geography is more useful to the Student of Elementary Schools and Methods than to one interested in Description, Travels, and Geography.

.9 Special Countries and Schools. History, Reports, etc.

Subdivided like 940–999; e. g. 372.9.2, English Elementary Schools.

373 Higher Education. Private and Endowed Schools.

See also 379 Public Schools.

.1 **Home Education. Tutor. Governess.**

.2 **Day Schools.**

.3 **Boarding Schools.**

.4–9 **Special Countries and Schools. History, Reports, etc.**

Subdivided like 940–999; 373.42, Higher English Schools.

374 Self-education and Culture.

.1 **Private Reading. Conversation.** See 028.

.2 **Reading Circles. Book and Periodical Clubs.**

.3 **Lyceums. Literary Clubs.**

.4 **Debating Societies.**

.5 **Popular Lectures.**

.6 **Popular Summer Schools.**

See also 407, 507, for Schools of Science, etc., for specialists, which are classed with their subject not with these popular gatherings.

.7 **Chautauqua.**

.8 **Societies for Home Study, Correspondence College.**

.9

375 Curriculum.

.01, Order of Studies; .02, Single Course; .03, Parallel Courses; .04, Optional Studies; .1–.9, Special Studies, in the order and subdivided like 100–999. e. g. 375.5, Place of Science in Curriculum; 375.82, Place of English Literature; use 375.84 also for General Questions on Modern Languages, and 375.83 for Classics.

376 Education of Women.

.1 **Physical Capacity of Women.**

.2 **Mental Capacity of Women.**

.3 **Domestic Education.**

.4 **Fashionable Education.**

.5 **Conventual Education.**

.6 **Collegiate Education.**

.7 **Co-education.**

.8 **Colleges for Women.**

.9 **Special Countries and Schools. History. Reports, etc.**

Subdivided like 940–999; 376.943, Education of Women in Germany.

377 Religious, Ethical, and Secular Education.

.1 **Bible in Public Schools.**

.2 **Ethical Education.**

.3 **Monastic Schools.**

.4 **Diocesan Schools.**

.5 **Parochial Schools.** See 257.

.6 **Missionary Schools.** See 266.

.7 **Charity Schools.**

.8 **Church and Education.**

Subdivided like 280; e. g. 377.82, Relation of Catholic Church to Education.

.9 **Non-Christian Religions and Education.**

Subdivided like 290; e. g. 377.97, Relation of Mohammedanism to Education.

378 Colleges and Universities. With power of conferring degrees.

.1 **University Education.**

.2 **Academic Degrees and Costume.**

.21 Degree-Conferring Body. College, University, or State?

.22 Graded Degrees. Cum Laude, etc.

.23 Degrees in Course.

.24 Degrees on Examination.

.25 Honorary Degrees.

.26 Degrees by Purchase or Forgery.

.27

.28

.29 Academic Gowns and Hoods.

.3 **Fellowships. Endowment of Research.**

.4–9 **Special Countries and Colleges. History, Reports, etc.**

Subdivided like 940–999. e. g. 378.42, English Universities. 378.741, Maine Colleges. The various Colleges of any section may be given each a number or be arranged alphabetically.

379 Public Schools. State Education.

.1 **Public School System.**

.11 School Funds.

.12 National Aid to Education. Land Grants.

.13 Local Taxation.

.14 School Laws. School Age.

.15 School Supervision; National, State, and Local.

.16 National and State Universities.

.17 Secondary Schools. High Schools. Academies. Grammar Schools.

.18 Primary Schools.

.19 Evening Schools.

.2 **Illiteracy.**

.21 Illiteracy and Crime.

.22 Illiteracy and Pauperism.

.23 Compulsory Education.

.24

.3 **Public vs. Private and Endowed Schools.**

.4–9 **Special Countries, Sections, Cities, or Schools.**

Subdivided like 940–999. e. g. 379.73, Reports of U. S. Commissioner of Education; 379.744, Education in Massachusetts; 379.7471, in New York City.

380 Commerce, Communication.

381 Domestic Trade.

382 Foreign Trade. Consular Reports.

383 Post Office.

384 Telegraph. Cable. Telephone. See 654.

385 Railroad and Express. See 656, Railroading.

386 Canal and Highway Transportation. ,,

387 River and Ocean Transportation. ,,

388 City Transit. See 625.

389 Weights and Measures. Metrology. See 658.

390 Customs. Costumes Popular Life.

391 Costume and Care of Person.

.1, Costumes of Men; .2, Women; .3, Children; .4, Feet, Sandals, Shoes, etc.; .5, Hair Dressing, Barbers; .6, Care of Person, Bathing, Toilet; .7, Ornaments and Jewelry; .8

392 Birth, Home, and Sex Customs.

.1, Birth Customs, Christening, Circumcision; .2, Sacrifice and Exposure; .3, Family and Home Relations; .4, Betrothal; .5, Marriage; .6, Sex Relations, Concubinage; .7

393 Treatment of the Dead.

.1, Earth Burial; .2, Cremation; .3, Embalming, Mummies; .4, Exposure; .9, Special Funeral Customs, Wake, Suttee.

394 Public and Social Customs.

.1, Eating, Banquets; .2, Shows and Diversions; .3, Games, Dances, etc.; .4, Ceremonies; .5, Processions; .6, Fairs; .7, Tournaments.

395 Etiquet.

396 Woman's Position and Treatment.

.1, Emancipation; .2, Legal Status, Property, Rights, etc.; .3, Political Status; See 324, Suffrage. .4, Education; See also 376, Education of Women. .5, Employment, See 331, Labor of Women. .6, .7, Woman in Art; .8, Woman in Literature; .9, Woman in History, Politics, War, Amazons.

397 Gipsies. Nomads. Outcast Races.

People without nationalities who do not coalesce with the ruling people among whom they live.

398 Folk-lore. Proverbs, etc.

.1, Primitive Traditions; .2, Legends; .3, Folk-lore; .4, Fairies, Elves, etc.; .5, Chapbooks; .6, Riddles; .7, Dream Books; .8, Song Books; Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folk-lore, etc. .9, Proverbs.

399 Customs of War.

Weapons. War Dances. Treatment of Captives. Scalping. Mutilation. Burning. Cannibalism.

Philology.

400 Philology in General.

In Philology the general works put under 400–419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479, and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group.

401 Philosophy, Origin of Language.

402 Compends, Outlines.

403 Dictionaries, Cyclopedias.

404 Essays, Lectures, Addresses.

405 Periodicals.

406 Societies, Transactions, etc.

407 Education, Teaching Languages.

408 Polygraphy, Collections.

.9 Universal Language.

409 History of Language.

410 Comparative.

410–419 includes *comparative* works in *general* and also those on the Indo-European group in general, but general *and comparative* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language.

411 Orthography, Orthoepy, Alphabets.

412 Etymology, Derivation.

413 Dictionaries, Lexicography.

414 Phonology. Visible Speech.

415 Grammar, Morphology, Syntax.

416 Prosody.

417 Inscriptions. Palæography. See 421.7, 471.7, 481.7, etc.

418 Texts.

419 Hieroglyphics. See 493.1.

420 English Philology.

.1, Philosophy; .2, Compends; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collective Works; .9, History of the Language.

421 Orthography.

See also this head treated in general grammars placed under 425.

.1 Alphabet.

.2 Vowels. Diphthongs. Aspirates.

.3 Consonants.

.4 Phonetic Spelling. Spelling Reform.

.5 Orthoepy.

.6 Accent.

.7 Palæography. Inscriptions.

.8

.9 Punctuation.

422 Etymology. Derivation.

422 is limited to Derivation. For Inflection, also called Etymology, see 425.1.

.1 Origin and Laws of Language.

.2 Prefixes. Suffixes.

.3 Reduplication.

.4 Foreign Elements.

.5 Noun Forms. Case, Number, Diminutives.

.6 Adjectival Forms. Degrees of Comparison.

.7 Pronominal Forms. Personal, Possessive, Relative, etc.

.8 Verbal Forms. Moods, Tense, Voice, etc.

.9 Particles. Adverbs, Prepositions, etc.

423 Dictionaries. Idioms.

.1, Idioms; .2, English; .3, German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4.

424 Synonyms.

425 Grammar.

425 includes General Works, covering also Orthography and Prosody.

.1 Morphology. Inflection. Divided, .5 Nouns, etc. See 442.
.2 Syntax.
.3 Arrangement of Words and Clauses.
.4 Particular Sentences; Conditional, Hypothetical, etc.
.5 Nouns.
.6 Adjectives. Articles.
.7 Pronouns.
.8 Verbs.
.9 Particles.

426 Prosody.

See also the head Prosody, in General Grammars 425.

.1 Quantity and Accent.
.2 Versification.
.3 Feet.
.4 Figures of Prosody.
.5 Meters.
.6 Rhymes.
.7 Strophe and Antistrophe.
.8 Textbooks for Writing Verse.
.9

427 Dialects. Early Forms of Language.

Subdivided by geographical divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect, 427.41. The dialects of other languages take the geographical subdivisions of their countries. The earliest form is .01, etc.

428 School Books and Texts.

Including only books for *learning* the language, with grammatical or philological notes, etc. For other works see the literature of the language, 820.

.1 Spelling Books.
.2 First Lessons.
Including in other languages books like Fasquelle, Ollendorff, Latin Prose, etc.
.3 Errors of Speech. Vulgarisms. Use of Words.
.6 Elementary Readers.
.7 Selections.
.8 Texts of Individual Authors.
.9 Examination Papers.

429 Anglo-Saxon.

The above subdivisions of English are used for all other languages and for 410, Comparative Philology.

All Languages are subdivided like 420 English.

430 **German.**

439 Minor Teutonic. Including general works on Teutonic group.

.1 Low German.
.2 Frisian. Old Saxon.
.3 Dutch. Flemish.
.4 Platt Deutsch.
.5 Scandinavian.
.6 Old Norse. Icelandic. Faroese.
.7 Swedish.
.8 Danish. Norwegian.
.9 Gothic.

440 **French.**

449 Old French.

.9 Provençal.

450 **Italian.**

459 Wallachian.

.9 Rumansh.

460 **Spanish.**

469 Portuguese.

470 **Latin.**

479 Minor Italic. Mediæval Latin.

Including general works on Romance group.

480 **Greek.**

489 Minor Hellenic. Modern Greek.

Including general works on Hellenic group.

490 Minor Languages.

Each language subdivided if wished like 420 English.

491 Other Indo-European.

(Beside Teutonic, 420–439, Italic, 440–479, and Hellenic, 480–489.) This head, 491, includes general works on the Indo-European tongues, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also 410.

.1 **Indic.**

.2 **Sanskrit. Prakrit.**

.3 **Pali.**

.4 **Modern East Indian Languages.**

Excluding Dravidian.

.41 Sindhi.
.42 Panjabi.
.43 Hindustani. Hindi.
.44 Bengali.
.45 Uriya.
.46 Marathi.
.47 Gujerati.
.48 Singhalese.
.49

.5 **Iranic.**

.51 Old Persian.
.52 Zend. (Avestan.) Old Bactrian.
.53 Pehlevi. (Huzwaresh.)
.54 Armenian.
.55 Modern Persian.
.56 Ossetic.
.57 Kurdish.
.58 Afghani.
.59

.6 **Keltic.**

.61 Gadhelic Group.
.62 Irish.
.63 Gaelic or Scotch.
.64 Manx.
.65 Cymric Group.
.66 Welsh or Cymric.
.67 Cornish.
.68 Armorican or Bas Breton.
.69

.7 **Russian.**

.79 Ruthenian.

491.8 **Other Slavonic.**

South East Slavonic Group.

.81 Bulgarian. (Church Slavonic.)
.82 Servian.
.83 Kroatian.
.84 Slovenian.

West Slavonic Group.

.85 Polish.
.86 Bohemian.
.87 Moravian. Slovakian.
.88 Sorbian.
.89 Polabian.

.9 **Lettic.**

.91 Old Prussian.
.92 Lithuanian.
.93 Lettish. (Livonian.)

492 Semitic.

Northern Group.

.1 **Aramaic.**

.19 Babylon and Nineveh Cuneiform.

.2 **Chaldee.**

.3 **Syriac. (Peshito.)**

Central Group.

.4 **Hebrew.**

.5 **Samaritan.**

.6 **Phenician. (Carthaginian.)**

Southern Group.

.7 **Arabic.**

.8 **Ethiopic. (Amharic.)**

.9 **Himyaritic.**

493 Hamitic.

.1 **Old Egyptian.** See 419 Hieroglyphics.

.2 **Coptic.**

494 Scythian. Ural-Altaic. Turanian.

495 Eastern Asiatic. Chinese.

496 African.

Excluding 493 Hamitic, 492.8 Ethiopic, etc., included in families above.

497 North American.

498 South American.

499 Malay-Polynesian and other.

Natural Science.

500 Science in General.

501-509 all have *Science in General* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

501 Philosophy, Theories, Utility, etc.

502 Compends, Outlines, Ancient and Mediæval Science.

503 Dictionaries, Cyclopedias, etc.

504 Essays, Lectures, Addresses.

505 Periodicals, Scientific Magazines.

506 Societies, Transactions, etc.

507 Education, Methods of Teaching and Studying, etc. See also 370.

508 Polygraphy, Collected Works, Extracts, etc.

509 History of Science.

510 Mathematics.

Works on Mathematics in General, not limited to any one or two sections, are grouped by form of treatment like Science in General above; *i. e.*, into Mathematical.

510.1, Philosophy; .2, Collections, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Education; .8, Logarithmic and other Tables, Instruments; .9, History.

511 Arithmetic.

.1 Systems of Arithmetic. See also 512.81.

.2 Notation and Numeration. Fundamental Rules.

.3 Prime Numbers.

.4 Fractions.

.5 Analysis. Permutation and Combination.

.6 Proportion and Progression.

.7 Involution and Evolution.

.8 Mercantile Rules. Interest. Alligation. Mensuration. Gauging.

.9 Problems and Tables.

512 Algebra.

.1 Systems of Algebra.

.2 Numerical Equations. Imaginary Expressions.

.21 Equations, 1st to 4th degrees.
.22 Higher Numerical Equations.
.23 Indeterminate Equations. Diophantine Analysis.
.24 Imaginary Expressions.

.3 Algebraical Equations. Maxima and Minima.

.4 Series. Fractions. Binomial Theorem. Taylor's Theorem.

.5 Combinatory Analysis.

.6 Proportion and Progression.

.7 Involution and Evolution.

.8 Higher Algebra.

.81 Theory of Numbers.
.82 Theory of Equations. Complex Variable. See also 517.8.
.83 Determinants.
.84 Symmetric Functions.
.85 Elimination. Eliminants and Discriminants.
.86 Transformations. Substitutions.
.87 Quantics.
.88 Invariants. Covariants. Contravariants.
.89

.9 Problems and Tables.

513 Geometry.

Plane and Solid Geometry bound together is put 513. Descriptive Geometry is put with Mathematical Drawing, 744.

.1 Plane Geometry.

.11 Right Lines.
.12 Intersecting Lines.
.13 Parallel Lines.
.14 Triangles.
.15 Quadrilaterals.
.16 Other Polygons.
.17 Similarity.
.18 Areas.
.19 Maxima and Minima

.2 Curves.

.21 Circles.
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

513.3 **Volumetric or Solid Geometry.**

.31 Lines and Planes.
.32 Intersecting Planes.
.33 Parallel Planes.
.34 Polyedrons.
.35 Pyramids.
.36 Prisms.
.37 Regular.

.4 **With Curved Surfaces.**

.41 Sphere.
.42 Cone.
.43 Cylinder.

.5 **Modern Geometry.**

.51 Points. Lines. Planes. Duality.
.52 Transversals.
.53 Cones. Conics. Involution.
.54 Radical Axes and Centres of Similitude.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Correspondence. Correlation of Figures.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvature.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 **Absolute or Non-Euclidean Geometry.**

.9 **Problems.**

514 Trigonometry.

.1 **Trigonometric Functions. General Formulæ.** See 522.7.

.2 **Trigonometric Series.**

.3 **Exponential Formulæ.**

.4 **Solution of Trigonometric Equations.**

.5 **Plane Trigonometry. Solution of Plane Triangles. Analytical.**

.6 **Spherical Trigonometry. General Formulæ.**

.7 **Solution of Spherical Triangles.**

.8 **Differences of Triangles, Plane and Spherical.**

.9 **Problems.**

515 Descriptive Geometry and Projections.

.1 **Orthogonal Projection on Two Planes.**

.11 Straight Lines. Planes.
.12 Single Curved Lines.
.13 Double Curved Lines.
.14 Single Curved Surfaces.
.15 Double Curved Surfaces.
.16 Surfaces of Revolution.
.17 Warped Surfaces.
.18 Intersections of Surfaces.

.2 **Isometric and Analogous Projections.**

.3 **Oblique Projection.**

.4 **Conical Projection.**

.5 **Spherical Projection.**

.51 Orthographic.
.52 Globular.
.53 Stereographic.
.54 Polar.
.55 Gnomonic.
.56 Conical.
.57 Cylindric.

.6 **Perspective.**

.61 Plane. Parallel. Oblique. Angular.
See also Scene Painting.
.62 Cylindrical.
See also Panorama Painting.
.63 Shadows; Natural and Artificial Light.
.64 Reflections.
.65 Circles, Cylinders and Spheres.
.66 Distortions and Corrections.
.67 Human Figure.
.68 New Methods. Special Devices.

.7 **Shades and Shadows.**

.8 **Stereotomy.**

.81 Stone Cutting.
.82 Carpentry.
.83 Stair Building.

516 Analytical Geometry.

CARTESIAN.

.1 **Plane Loci.**
.11 Right Lines.
.12
.13
.14 Transformation of Co-ordinates.
.2 **Curves.**
.21
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.
.3 **Loci in Space.**
.31 Right Lines.
.32 Planes.
.33
.34 Transformation of Co-ordinates.
.4 **Curved Surfaces.**
.41
.42 Conicoids or Quadric Surfaces.
.43 Ellipsoid.
.44 Hyperboloid.
.45 Paraboloid.
.46 Surfaces of Higher Order.
.5 **Modern Analytical Geometry.**
.51 Systems of Co-ordinates.
.52 Abridged Notation.
.53 Conics.
.54 Higher Plane Curves.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Method of Projection.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvatures.
.59 Surfaces of Higher Order. Cubics.
.6
.7
.8 **Quaternions. Calculus of Direction and Position.**
.9 **Problems.**

517 Calculus.

.1 **Infinitesimal. Method of Exhaustions.**
Differential and Integral Calculus, *bound together*, is put here.
.2 **Differential.**
.21 Series.
.22 Indeterminate Forms.
.23 Change of the Independent Variable.
.24 Theory of Plane Curves. Curve Tracing.
.25
.26 Theory of Curved Surfaces.
.27 Maxima and Minima.
.28
.29 Problems.
.3 **Integral.**
.31 Formulæ of Reduction and Integration.
.32 Definite Integrals. Eulerian Integrals.
.33 Rectification. Quadrature. Cubature.
.34 Multiple Integrals.
.35 Laplace's Functions. Bessel's and Allied Functions.
.36 Elliptic and Hyperelliptic Functions. Abelian Functions.
.37
.38 Differential and Partial Differential Equations.
.39 Problems and Tables.
.4 **Of Variations.**
.5 **Of Functions.**
.6 **Of Finite Differences.**
.7 **Of Operations**
.8 **Of Imaginaries. Complex Variables.** See also 512.82.
.9 **Problems.**

519 Probabilities.

.1 **General Principles. Direct and Inverse Probabilities.**
.2 **Mathematical and Moral Expectation.**
.3 **Testimony. Decisions of Juries and Tribunals.**
.4 **Probability of Future Events deduced from Experience.**
.5 **Life Contingencies. Annuities. Life Insurance.**
.6 **Errors of Observation. Mean or Average Values.**
.7
.8 **Method of Least Squares.**
.9 **Problems.**

520 Astronomy.

520.1, Astrology; 520.2, Compends; 520.3, Dictionaries; 520.4, Essays; 520.5, Periodicals; 520.6, Societies; 520.7, Study and Teaching of Astronomy; 520.8, Collections, etc.; 520.9, History of Astronomy. See Note under Natural Science in General, 500–509.

521 Theoretical Astronomy.

Mathematical investigation of celestial motions, specially of the Solar System. The motions of individual bodies are classed under separate heads in 523.

.1 Celestial Dynamics.

.11 General Laws of Equilibrium and Motion. See also 531.2.
.12 Law of Universal Gravitation and Motion Relative to the Sun. See also 531.51.
.13 Problem of Three Bodies.
.14 Figures of Heavenly Bodies.
.15 Rotation of Heavenly Bodies.

.2 Geocentric and Heliocentric Place.

.21 Plane of Orbit in Space.
.22 Position of Orbit in its Plane.
.23 Position of Body in its Orbit.
.24 Position of Body in Space.
.25 Heliocentric Longitude and Latitude.
.26 Geocentric Longitude and Latitude.
.27 Variations of Right Ascension and Declination.
.28 Variations of Longitude and Latitude.
.29

.3 Orbits.

.31 Definitions of Orbits.
.32 Determination from Three Observations.
.33 Determination from Four Observations.
.34 Variation of Elements of Orbit.
.35 Correction of Approximate Elements of Orbit.
.36 Application of Method of Least Squares.
.37 Kepler's Problem.
.38 Equation of Center and Radius Vector.
.39

.4 Perturbations.

.41 Mutual Action of Planets.
.42 Action of Satellites.
.43 Non-Sphericity of Planets.
.44 Resisting Medium.

.5 Theory of Planets.

.6 Theory of Satellites.

.7 Theory of Comets.

.8 Theory of Eclipses.

.9 Precession and Nutation.

522 Practical and Spherical.

.1 Observatories.

.11 General Plan, Location
.12 Material and Mechanism of Dome, Drum, etc.
.13 Transit Buildings, Wings, etc.
.14 High Altitude Observatories.
.15 Portable.
.16
.17
.18
.19 History and Reports of Observatories.

.2 Telescopes.

.21 Reflecting.
.22 Refracting.
.23 Eye Piece and Accessories.
.24 Object Glass.
.25 Mounting, Tube, etc.
.26 Equatorial Mounting.
.27 Transit Mounting.
.28 Observing Chairs, etc.
.29 Famous Telescopes.

.3 Meridional Instruments.

.31 Finding Meridian Line.
.32 Mural Circles.
.33 Meridian Circles.
.34 Transit, Placing in Position.
.35 Collimation Constant.
.36 Level Constant.
.37 Azimuth Constant.
.38 Other Constants, Flexure, Index Error, etc.
.39

.4 Extra Meridional Instruments.

.41 Sextant and Quadrant, Reflecting Circle, Astrolabe.
.42 Alt-azimuth.
.43 Zenith Telescope.
.44 Transit out of Meridian.
.45 Heliometer.
.46 Equatorial.
.47 Prime Vertical.
.48
.49

522.5 Auxiliary Instruments.

.51 Sidereal Clock and Chronometer.
.52 Electro-Chronograph.
.53 Micrometers.
.54 Personal Equation Machine.
.55 For Illumination.
.56 For Solar Observation.
.57 Artificial Horizons.
.58 Heliostat.
.59

.6 Auxiliary Observations.

.61
.62 Photometry.
.63 Photography.
.64
.65 Polarization.
.66
.67 Spectroscopy.
.68
.69

.7 Spherical Astronomy. See also 514.6.

.71 Celestial Sphere. Spherical Co-ordinates.
.72 Rectangular Co-ordinates.
.73 Transformation of Co-ordinates.
.74 Differential Variations of Co-ordinates.
.75 Interpolation.
.76 Meridian Line. Variation of Compass.
.77 Reduction of Observations to the Meridian.
.78 Use of Globes.
.79

.9 Corrections.

.91 Parallax.
.92 Refraction.
.93 Semi-Diameter of Celestial Bodies.
.94 Aberration.
.95 Precession.
.96 Nutation.
.97 Personal Equation.
.98 Instrumental Errors.
.99

523 Descriptive Astronomy.

.1 Universe.

.11 Structure of Universe.
.12 Nebular Hypothesis.
.13 Plurality of Worlds.
.14 Space and its Temperature.
.15 Resisting Medium.
.16 Cosmic Dust.
.17 Repulsive Force.

.2 Solar System.

.21 Distributive Laws of Planets.
.22
.23 Conjunctions and Oppositions.
.24 Motion of Solar System in Space.
.25 Constitution of Planetary System.
.26 Stability of Solar System. Ecliptic.
.27
.28 Orrery, Planetarium, Gyroscope, etc.
.29 Zodiac.

.3 Moon.

.31 Constants (Size, Mass), Distance and Parallax.
.32 Heat and Light. Phases.
.33 Orbit and Motions: Sidereal Month, Tropical, Perigee and Apogee, Sun and Earth's Attraction, Librations. See also 521.6 for Orbit.
.34 Features of Surface, Mountains, Plains, etc.
.35 Atmosphere.
.36 Physical Condition.
.37 Spectrum.
.38 Eclipses.
.39 Charts, Photographs, etc.

.4 Planets.

.41 Mercury and intra-Mercurial.
.42 Venus.
.43 Mars.
.44 Asteroids.
.45 Jupiter.
.46 Saturn.
.47 Uranus.
.48 Neptune and trans-Neptunian.
.49 Charts, Photographs, etc.

.5 Meteors and Zodiacal Light.

.51 Aerolites.
.52 Fire-balls.
.53 Meteoric Showers, Radiant Points, etc.
.54 Systems of Meteors.
.55
.56 Connection of Comets and Meteors.
.57 Spectrum.
.58 Hight of Atmosphere from Observation.
.59 Zodiacal Light. Aurora Borealis.

523.6 **Comets.**
- .61 Appearance and Development.
- .62
- .63 Orbits.
- .64 Remarkable Comets.
- .65
- .66 Physical Constitution.
- .67 Spectrum.
- .68
- .69 Charts, Photographs, etc.

.7 **Sun.**
- .71 Constants, Dimensions.
- .72 Heat and Light: Theories as to Source.
- .73 Apparent Motion. Rotation.
- .74 Spots, Faculæ, and Other Features of Surface.
- .75 Prominences, Chromosphere. Corona.
- .76 Theories of Physical Constitution.
- .77 Spectrum.
- .78 Eclipses.
- .79 Charts, Photographs, etc.

.8 **Stars.**
- .81 Stellar Parallax, Distance.
- .82 Heat and Light. Photometric Observations. Magnitude. Visibility.
- .83 Proper Motion, Star-drift.
- .84 Variable, Double, and Multiple Stars.
- .85 Clusters and Nebulæ.
- .86 Physical Constitution.
- .87 Spectrum.
- .88
- .89 Constellations, Maps, etc.

.9 **Transits and Occultations.**
- .91 Transits of Mercury.
- .92 Transits of Venus and Solar Parallax.
  - .93 Delisle's Method.
  - .94 Halley's Method.
  - .95 Photographic Method.
  - .96 Transits of Venus to 1874.
  - .97 Transit of 1882.
  - .98
  - .99 Occultations.

[524 Maps and Observations.

Series of observatory publications may be kept together under 524, or under 522.19 with the History and Reports of the Observatory. Special maps or observations e. g. on Sun or Moon are better placed in sub-sections 9 *under these heads*, with Charts and Photographs, e. g. 523.79, thus leaving these bracketed Nos. 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep *all* Maps and Observations together.

- .3 **Of Moon.** See also 523.39.
- .4 **Of Planets.** See also 523.49.
- .5
- .6 **Of Comets.** See also 523.69.
- .7 **Of Sun.** See also 523.79.
- .8 **Star Catalogues.** See also 523.89.]

525 Earth.

.1 **Constants.**
- .11 Mass. Weight.
- .12 Density.
- .13 Dimensions, Diameter.
- .14 Figure. Geomorphy. Equatorial Belt.
- .15 Distance from Sun.
- .16 Parallax.

.2 **Heat. Light.**

.3 **Orbits and Motions.**
- .31 Period of Revolution.
- .32 Obliquity of Ecliptic to Equator.
- .33 Eccentricity.
- .34 Perturbations.
- .35 Rotation.
- .36 Foucault's Pendulum.
- .37 Deviation of Falling Bodies and Projectiles.
- .38 Tables of the Sun. Apparent Motion.

.4 **Geographical Co-ordinates.**
- .41 Finding Latitude. See also 527.1.
  - .42 By Meridian Altitudes.
  - .43 By Pole Star.
  - .44 By Altitude of two or more Stars.
  - .45 By Other Methods.
- .46 Finding Longitude. See also 527.2.
  - .47 Terrestrial Means. Chronometers. Telegraph. Signals.
  - .48 Celestial Signals. Eclipses. Occultations. Transits.
  - .49 Lunar Methods.

.5 **Seasons.**
- .51 Effect of Inclination of Equator to Ecliptic.
- .52 Effect of Eccentricity of Earth's Orbit.
- .53 Secular Changes of Seasons.
- .54 Seasons on Mars and Other Planets.

.6 **Tides.**
- .61 Mathematical Theory.
- .62 Effect of Sun and Moon in Producing Tides.
- .63 Distribution, Diurnal Inequality, Spring and Neap, Priming and Lagging.
- .64 Establishment of a Port. Coast Form Modification.
- .65 Velocity of Hight of Tide Wave.
- .66 Tides on Inland Seas.
- .67 Supposed Effect in Retarding Earth's Revolution.
- .68 Tide Registering and Predicting Machines.
- .69 Tide Tables.

.7 **Twilight.**

526 Geodesy.

.1 Theory and Determination of Earth's Figure.

.11 Potentials of Ellipsoids.
.12 Equilibrium of Rotating Spheroid.
.13 Law of Ellipticity.
.14 Airy's and Pratt's Theories as to Attraction of Mountains.
.15 Determination of Figure by Airy, by Bessel, and by Clarke.
.16 Ellipsoidal Figure and Position of Axes.
.17 Geoidal Figure.
.18
19.

.2 Base Measuring and Apparatus.

.21 Standards of Length and Temperature.
.22 Apparatus of Struve, Bessel, Colby, U. S. Coast Survey, U. S. Lake Survey, etc.
.23 Adjustments of Apparatus.
.24 Location of Base Line.
.25 Field Operations.
.26 Calculation of Results and Corrections.
.27 Verification.
.28
.29

.3 Field Work of Triangulation.

.31 Reconnaissance.
.32 Stations: Names, Signals, Tripods, Scaffolds and Towers, Surface and Underground Monuments.
.33 Observations, Instruments and Records.
.34 Reduction to Station's Center.
.35 Corrections for Phase of Signal and Eccentricity.
.36 Spirit Levelling.
.37 Barometric Levelling.
.38 Trigonometric Levelling.
.39

.4 Computation of Triangulation.

.41 Spherical Excess.
.42 Legendre's Theorem.
.43 Chord Process.
.44 By Spherical Trigonometry.
.45 By Spheroidal Trigonometry. See also application of Least Squares, 522.6.
.46

.46 L. M. Z. Formulæ and Applications.

.47 Direct Deduction by Bessel.
.48 Deduction by Puissant.
.49 Tables for Computation.

526.5 Theory of Least Squares in Adjustment of Figures, etc.

.51 Method of Independent Angles.
52 Adjustment of a Quadrilateral.
.53 Adjustment of Triangulation Net.
.54 Method of Directions.
.55 Adjustment for Closure of a Circuit.
.56 Method of Repetitions.
.57 Adjustments of Base Measures.
.58 Adjustments of Levelling.

.6 Astronomic Determinations and their Connection with Geodetic Results.

.61 Latitude Determinations.
.62 Longitude Determinations.
.63 Azimuth Determinations.
.64 Effect of Irregularities of Earth's Surface on Latitude, Longitude and Azimuth.
.65 Effect of same on Angles of Triangle.

.7 Gravity Experiments and Results.

.71 Mathematical Theory.
.72 Pendulum Apparatus.
.73 Pendulum Operations.
.74 Corrections.
.75 Reduction of Results.

.8 Map Projections.

.81 Perspective Projections.
.82 Orthomorphic Projections.
.83 Development Projections.
.84 Zenithal Projections.
.85 Equivalent Projections.

.9 Surveying.

.91 Instruments and Methods. See 526.2.
.92 Measurement of Distances.
.93 Measurement of Angles.
.94 Measurement of Heights.
.95 Levelling. See 526.36–38.
.96 Plotting.
.97 Computation of Areas.
.98 Topographical Drawing.
.99 For Special Purposes. Military, Naval, Railroad, Mining, etc.

527 Navigation.

.1 **Finding Latitude at Sea.** See also 525.41.
.2 **Finding Longitude at Sea.** See also 525.46.
.3 **Finding Time at Sea.** See also 529.74.
.4 **Sumner's Method.**
.5 **Great Circle Sailing.**
.6
.7
.8
.9

528 Ephemerides.

.1 **American.**
.2 **English.**
.3 **German.**
.4 **French.**
.5 **Italian.**
.6 **Spanish.**
.7 **Slavic.**
.8 **Scandinavian.**
.9 **Construction of Ephemeris.**

529 Chronology.

.1 **Siderial and Solar Day:** Apparent and Mean Time, Equation of Time, Causes of Inequality.
.2 **Solar Year, Months.**
.3 **Calendars to 44 B. C.**
.4 **Calendar of Julius Cæsar.**
.5 **Calendar of Gregory.**
.6 **Ecclesiastical Calendar.**
.7 **Horology.**

.71 Finding Time by Transit.
.72 Finding by Equal Altitudes.
.73 Finding by Single Altitude.
.74 Finding by Sextant. See also 527.3.
.75 Time Systems, and Standards.
.76 Distribution of Time.
.77 Cosmic Time.
.78 Instruments for Measuring: Dials, Hour-glasses, Clocks, Watches, etc.
See 522.51 for Siderial Clocks and Chronometers.
See 681 for Clock and Watch making.
.79

530 Physics.

Like Science in General, viz.:

General works only are arranged: 530.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching, Experiments; .8, Physical Units, Measuring Instruments; .9, History.

531 Mechanics.

.1 **Pure Motion. Kinematics.**
.2 **Statics.**
.21 Force and its Measure.
.22 Composition of Forces and Motions.
.23 Moments.
.24 Parallel Forces. Centre of Gravity.
.3 **Dynamics.**
.31 Rectilinear Motion.
.32 Vibration.
.33 Undulation.
.34 Rotation.
.35 Centrifugal and Centripetal Force.
.4 **Work. Friction.**
.41 Unit of Work.
.42 Diagram of Work.
.43 Laws of Friction. Modulus of Machines.
.44 Sliding Friction.
.45 Rolling Friction.
.5 **Gravity.**
.51 Law of Universal Gravitation.
.52 Laws of Falling Bodies.
.53 Pendulum.
.54 Mass, Density, etc.
.55 Projectiles.
.56
.57
.58 Apparatus for Illustration.
.6 **Conservation of Energy.**
.7
.8 **Machines. Transmission of Force.**
.81 Lever and Balance.
.82 Wheel and Axle.
.83 Cord and Catenary.
.84 Pulley.
.85 Inclined Plane.
.86 Wedge.
.87 Screw.
.88
.9 **Tables. Problems. Questions.**

527 Navigation.

.1 **Finding Latitude at Sea.** See also 525.41.
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.5 **Gravity.**
.51 Law of Universal Gravitation.
.52 Laws of Falling Bodies.
.53 Pendulum.
.54 Mass, Density, etc.
.55 Projectiles.
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.58 Apparatus for Illustration.
.6 **Conservation of Energy.**
.7
.8 **Machines. Transmission of Force.**
.81 Lever and Balance.
.82 Wheel and Axle.
.83 Cord and Catenary.
.84 Pulley.
.85 Inclined Plane.
.86 Wedge.
.87 Screw.
.88
.9 **Tables. Problems. Questions.**

532 Liquids. Hydrostatics. Hydraulics.

.1 Properties of Liquids. Pressure.
.2 Equilibrium of Liquids.
.3 Buoyant Effects. Floating Bodies.
.4 Specific Gravity.
.5 Liquids in Motion.
.51 Theoretical Flow.
.52 Orifices, Adjutages, Fluid Vein.
.53 Weirs, Overfalls.
.54 Pipes, Open Channels, Rivers.
.55 Bends, Valves, sudden enlargements and contractions.
.56 Efflux; variable pressure.
.57 Hydrometry.
.58 Impulse and Resistance.
.59 Theory of Waves.
.6 Capillary Attraction.
.7 Osmose. Absorption.
.8 Applications. Machines.
.81 Hydraulic Press.
.82 Hydraulic Engine.
.83 Water Ram.
.84 Water Wheels.
.85 Water Blast.
.9 Tables. Problems. Questions.

533 Gases. Pneumatics.

.1 Properties of Gases and Vapors.
.2 Laws of Compressibility.
.3 Atmosphere.
.4 Barometer.
.5 Air Pump.
.6 Aeronautics.
.7 Kinetic Theory of Gases.
.8 Applications.
.81
.82 Manometer. Pressure Gauges
.83 Condensing Pump.
.84 Force Pump.
.85 Suction Pump.
.86 Diving Bell.
.87 Forge Bellows.
.88 Pneumatic Dispatch.
.9 Tables. Problems. Questions.

534 Sound. Acoustics.

.1 Theory. Undulations.
.2 Propagation of Sound. Velocity. Diffraction.
.3 Musical Sound. Tuning Forks.
.4 Analysis of Sounds. Resonators.
.5 Superposition of Vibrations.
.6 Graphical Representations.
.7 Physiological. Ear and Larynx.
.8 Applications.
.81
.82
.83 Signals in Navigation.
.84 Applications to Architecture.
.85 Musical Instruments.
.86 Phonograph.
.9. Tables. Problems. Questions.

535 Light. Optics.

.1 Theory.
.2 Propagation. Velocity. Measurement of Light.
.3 Reflection. Refraction. Absorption.
.4 Dispersion. Diffraction. Interference.
.5 Polarization. Polariscope.
.6 Color.
.7 Physiological. Eye.
.8 Applications.
.81 Lenses.
.82 Microscopes and Magnifiers.
.83 Telescopes.
.84 Spectroscopes and Spectrum Analysis.
.85 Photography.
.86 Other Applications of Lenses.
.87 Mirrors and Reflecting Instruments.
.88 Lighthouses.
.89
.9 Tables. Problems. Questions.

536 Heat.

.1 Theory. Nature.
.2 Communication.
.3 Action of Bodies on Heat.
.31 Reflection.
.32 Refraction.
.33 Radiation.
.34 Absorption.
.35 Diathermancy.
.4 Effects. Action of Heat on Bodies.
.41 Expansion.
.42 Liquefaction.
.43 Solidification.
.44 Vaporization and Condensation.
.45 Incandescence.
.46 Combustion. Flame.
.5 Temperature.
.51 Thermometry.
.52 Pyrometry.
.53 Electric Methods of Measuring.
.6 Calorimetry.
.7 Thermodynamics. Mechanical Equivalent.
.8 Applications.
.81 Steam Engines.
.82 Gas Engines.
.83 Heating.
.84 Ventilating.
.9 Tables. Problems. Questions.

537 Electricity.

.1 Theory. Nature.
.2 Statical.
.21 Quantity, Potential.
.22 Conduction, Distribution.
.23 Machines.
.24 Condensers.
.25 Electrometers.
.3
.4 Atmospheric. Lightning Rods.
.5 Dynamical.
.51 Theory of Coils. Constants.
.52 Induction Spark.
.53 Induction Spark in rarified gases.

537.6 Electro Dynamics.
.7 Electrical Measurements.
.8 Applications.
.81 Telegraph.
.82 Telephone. Microphone.
.83 Dynamos. Electric Lighting.
.84 Transmission of Power. Storage.
.85 Electro-Metallurgy.
.86 Galvanometers. Batteries. Coils.
.87 Medicine.
.88 Electric Signals.
.9 Tables. Problems. Questions.

538 Magnetism.

For "Animal Magnetism," Mesmerism, etc., see 134.

.1 Theory. Properties of Magnets. Lines of Force.
.2 Communication. Induction. Touch.
.3 Electro-Magnetism.
.4 Diamagnetism.
.5
.6
.7 Terrestrial Magnetism.
.8 Applied. Magnetic Machines.
.9 Tables. Problems. Questions.

539 Molecular Physics.

.1 Theory. Molecular Structure.
.2 Properties of Solids.
.3 Elasticity. Torsion.
.4 Strength of Materials.
.5 Permanent Displacement of Molecules.
.51 Malleability.
.52 Ductility.
.53 Hardness.
.54 Tempering.
.6 Intermolecular Forces.
.7
.8
.9 Tables. Problems. Questions.

540 Chemistry.

.1, Theories, Alchemy, Phlogiston; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching; .8, Collective Works; .9, History.

541 Theoretical Chemistry.

.1 Atoms. Molecules.
.2 Atomic Theory. Atomic Weights. Equivalence.
.3 Chemical Affinity. Combustion.
.4 Salts. Acids. Bases.
.5 Types.
.6 Compound Radicles.
.7 Allotropy. Isomerism.
.8 Solubility. Water of Crystallization.
.9 Classification. Nomenclature. Notation. Formulæ. Stoichiometry. Tables.

542 Practical and Experimental Chemistry.

.1 Laboratory.
.2 Apparatus and Manipulation.
.3 Weighing and Measuring. Specific Gravity.
.4 Heating. Baths.
.5 Blowpiping. See 544.3, 549.1.
.6 Solution. Precipitation.
.7 Gas Manipulation. Eudiometer. See 545.6.
.8 Electric and Galvanic Manipulation. See 537.85.
.9 Other Operations.

543 Analysis.

Divided by material analyzed.

.1 Food and Drink.
.2 Milk.
.3 Water.
.4 Drugs and Medicines.
.5 Poisons.
.6 Rock Analysis.
.7 Special Inorganic Substances.
.8 Special Vegetable Substances.
.9 Special Animal Substances.

544 Qualitative Analysis.

.1 Wet Method.
.2 Dry Method. See 668, Assaying.
.3 Blowpiping. See 542.5, 549.1, Mineralogy.
.4
.5 Dialysis.
.6 Spectrum Analysis. See 535.84.
.7 Polarization. See 535.5.
.8
.9

545 Quantitative Analysis.

.1 Gravimetric.
.2 Wet Method.
.3 Electrolysis. See 537.85.
.4 Dry Method.
For Assaying see 668.
.5 Volumetric.
.6 Solutions.
.7 Gases. Eudiometry. See 542.7
.8 Colorimetric.
.9 Synthesis.

546 Inorganic Chemistry.

.1 Non-Metallic Elements.

.11 Hydrogen.
.12 Halogen Group.
.13 Chlorine.
.14 Bromine.
.15 Iodine.
.16 Fluorine.
.17 Nitrogen Group. Nitrogen.
.18 Phosphorus.
.19 Arsenic.
.2 Oxygen Group.
.21 Oxygen.
.22 Sulphur.
.23 Selenium.
.24 Tellurium.
.25 Carbon Group.
.26 Carbon.
.27 Boron.
.28 Silicon.
.29

546.3 **Metals.**

.31 **Alkali Group.**
.32 Potassium.
.33 Sodium.
.34 Lithium.
.35 Rubidium.
.36 Caesium.
.37
.38
.39
.4 **Alkaline Earths.**
.41 Calcium.
.42 Strontium.
.43 Barium.
.44 **Magnesium Group.**
.45 Beryllium.
.46 Magnesium.
.47 Zinc.
.48 Cadmium.
.49
.5 **Lead Group.**
.51 Lead.
.52 Thallium.
.55 **Silver Group**
.56 Copper.
.57 Silver.
.58 Mercury.
.59
.6 **Cerium Group.**
.61 Yttrium.
.62 Cerium.
.63 Lanthanum.
.64 Didymium.
.65 Erbium.
.66 Aluminium.
.67 Indium.
.68 Gallium.
.69 Scandium.
.7 **Iron Group.**
.71 Manganese.
.72 Iron.
.73 Cobalt.
.74 Nickel.
.75 **Chromium Group.**
.76 Chromium.
.77 Molybdenum.
.78 Tungsten.
.79 Uranium.

546.8 **Tin Group.**
.81 Tin.
.82 Titanium.
.83 Zirconium.
84 Thorium.
.85 **Vanadium Group.** Vanadium.
.86 Antimony.
.87 Bismuth.
.88 Tantalum.
.89 Niobium.
.9 **Platinum Group.**
.91 Gold.
.92 Platinum.
.93 Iridium.
.94 Osmium.
.95 **Ruthenium Group.**
.96 Ruthenium.
.97 Rhodium.
.98 Palladium.
.99

547 Organic Chemistry.

.1 **Cyanogen and its Compounds.**
.2 **Hydrocarbons. Fatty Series.**
.21 Paraffins.
.22 Olefines.
.23 Acetylenes.
.24 Valylene. Dipropargyl, etc.
.25 **Aromatic Series.**
.26 Benzenes.
.27 Diphenyl Group.
.28 Naphthalene. Anthracene. Phenanthrene.
.29 Higher Series.

The seven heads 547.3 to 547.9 are sub-divided like 547.2.

.3 **Alcohols. Phenols.**
.4 **Ethers. Simple. Compound. Haloid.**
.5 **Aldehydes.**
.6 **Ketones. Quinones.**
.7 **Acids. Acid Halides. Acid Anhydrides. Sulpho-acids.**
.8 **Nitro-derivatives. Amines. Compound Ammoniums. Amids. Amic Acids. Azo-bodies. Azoxy-bodies. Hydrazo-bodies. Diazo-bodies.**
.9 **Compounds with Metals.**

548 Crystallography.

.1 Systems of Crystallization.
.2 Twin Crystals. Crystalline Aggregations.
.3 Cleavage. Isomorphism. Polymorphism.
.4 Irregularities. Internal Imperfections.
.5 Formation and Growth of Crystals.
.6 Pseudomorphs.
.7 Mathematical. Measurement of Angles.
.8 Physical.
.9 Optical.

549 Mineralogy.

.01, Philosophy, Classification; .02, Compends; .03, Dictionaries; .04, Essays, Papers, etc.; .05, Periodicals; .06, Societies; .07, Study and Teaching, Museums; .08, Collective Works; .09, History.

.1 Determinative. Blowpiping.
.2 Native Elements.
.3 Sulphides, Tellurides, Selenides, Arsenides, Antimonides, Bismuthides.
.4 Compounds of Chlorine, Bromine, Iodine, and Fluorine.
.5 Oxygen Compounds. Oxids.
.6 Silicates.
.61 Anhydrous.
.65 Hydrous.
.7 Other Ternary Oxygen Compounds.
.71 Tantalates. Columbates.
.72 Phosphates. Arsenates. Vanadates. Antimonates. Nitrates.
.73 Borates.
.74 Tungstates. Molybdates. Chromates.
.75 Anhydrous Sulphates.
.76 Hydrous Sulphates.
.77 Tellurates.
.78 Carbonates.
.79 Oxalates.
.8 Hydrocarbons.
.9 Geographical Distribution.

550 Geology.

550.1, Philosophy, Theories, Geological Time; .2, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

551 Physical and Dynamical Geology.

Including Physical Geography. For Cosmical Geography, see 523.

.1 Structure of Earth as a Whole.
.11 Interior of Earth.
.12 Internal Heat.
.13 Earth's Crust.
.14 Conductivity of Rocks.
.2 Seismology.
.21 Volcanoes.
.22 Earthquakes.
.23 Hot Springs, Geysers.
.24 Oscillations of the Earth's Crust.
.3 Erosion and Deposition.
.31 Glaciers and Glacial Phenomena.
.32 Moraines.
.33 Transported Materials, Till.
.34 Icebergs.
.35 Aqueous Erosion.
.36 Coast Changes.
.37 Aerial Erosion.
.4 Surface Features of the Earth.
.41 Continents.
.42 Islands.
.43 Mountains. Valleys. Orology.
.44 Caves.
.45 Plains.
.46 Oceans.
.47 Ocean Currents.
.48 Rivers. Lakes.
.49 Springs.
.5 Meteorology.
.51 Atmospheric Currents, Winds.
.52 Thermometry, Heat.
.53 Hypsometry.
.54 Barometry, Pressure.
.55 Storms.
.56 Climate.
.57 Moisture. Rainfall.
.58 Prairies, Forests, and Deserts.
.6 Metamorphism.
.7 Stratigraphical Geology.
.71 Archæan.
.72 Cambrian.
.73 Silurian, Lower and Upper.
.74 Devonian
.75 Carboniferous.
.76 Triassic and Jurassic.
.77 Cretaceous.
.78 Tertiary and Quaternary.
.79 Recent.

551.8 **Structural Geology.**

.81 Stratification.
.82 Curvature and Contortion.
.83 Ripple Marks and Sun Cracks.
.84 Joints. Polarity in Rocks.
.85 Dip. Outcrop. Strike.
.86 Anticlinal. Synclinal.
.87 Faults and Folds.
.88 Formation of Veins and Dykes.
.89 Cleavage of Rocks.

.9 **Agents of Geological Work.**

.91 Frost.
.92 Water.
.93 Atmosphere.
.94 Chemical Changes. Heat.
.95 Animals.
.96 Coral Reefs.
.97 Plants.
.98 Segregation and Concretion.
.99 Other Agents.

552 Lithology, Petrography.

.1 **Igneous Rocks.**

.2 **Volcanic Rocks.**

.21 Lavas.
.22 Pumice. Scoria. Volcanic Ashes.
.23 Obsidian. Pitchstone.
.24 Trachyte. Volcanic Tufa. Tuff.
.25 Rhyolite.
.26 Andesite. Dacite.
.27 Felsites.
.28 Basalt.
.29 Other Volcanic Rocks.

.3 **Plutonic Rocks.**

.31 Porphyry. Porphyrite.
.32 Syenite.
.33 Granite.
.34 Diabase.
.35 Dolerite.
.36 Diorite.
.37 Melaphyr.
.38
.39 Other Plutonic Rocks.

.4 **Metamorphic Rocks.**

.41 Granites and Syenites.
.42 Gneiss.
.43 Schists.
.44 Slates. Argillite.
.45 Quartzite. Novaculite. Itacolumite.
.46 Marble.
.47 Serpentine.
.48
.49 Other Metamorphic Rocks.

552.5 **Sedimentary Rocks.**

.51 Sandstone. Conglomerate. Sand. Gravel.
.52 Shale. Clay Silt.
.53 Gypsum. Salt.
.54 Limestone. Marl. Ooze.
.55 Dolomite.
.56 Oölite.
.57 Infusorial or Diatomaceous Earth.
.58 Glauconite. Greensand.
.59 Other Sedimentary Rocks.

.6 **Meteorites.**

.7 **Decay of Rocks.**

.8 **Microscopical Lithology.**

553 Economic Geology.

.1 **Ore Deposits.**

.11 Formation and Structure.
.12 Classification.
.13 Superficial. Placers.
.14 Stratified. Beds, etc.
.15 Unstratified.
.16 Disseminated through eruptive rocks.
.17 Stockwerks. Fahlbands. Contacts.
.18 Chambers and Pockets. Impregnations.
.19 Mineral Veins.

.2 **Carbon Series.**

.21 Peat.
.22 Lignite and Jet.
.23 Cannel Coal. Bituminous Shale.
.24 Bituminous and Semi-Bituminous Coals.
.25 Anthracite and Graphitic Anthracite.
.26 Graphite. Plumbago.
.27 Asphalt and Asphaltic Coals. Ozocerite.
.28 Petroleum. Natural Gas.
.29 Fossil Gums and Resins.

.3 **Ores of Iron.**

.4 **Ores of Metals other than Iron.**

.41 Ores of Gold.
.42 Ores of Silver.
.43 Ores of Copper.
.44 Ores of Lead.
.45 Ores of Zinc and Tin. Mercury.
.46 Ores of Manganese and Chromium.
.47 Ores of Antimony and Arsenic.
.48 Ores of Nickel and Cobalt.
.49 Other Metallic Ores.

553.5 **Building Stones.**
- .51 Marbles and Limestones.
- .52 Granites and Syenites.
- .53 Sandstones.
- .54 Slates.
- .55 Serpentines. Soapstones.
- .56 Porphyries.
- .57 Trap.
- .58 Tufa. Peperino.
- .59 Other Building Stones.

.6 **Earthy Economic Minerals.**
- .61 Fire Clays. Brick Clays. Potter's Clays.
- .62 Sands.
- .63 Rock Salt. Gypsum.
- .64 Phosphates. Apatite. Guano.
- .65 Emery.
- .66 Heavy Spar. Sulphur.
- .67 Asbestus, etc.
- .68 Limes and Mineral Cements.
- .69 Other Earthy Economic Minerals.

.7 **Mineral Waters.**
- .71 Alkaline.
- .72 Saline.
- .73 Chalybeate, Iron-bearing.
- .74 Sulphuric.
- .75 Calcic.

See also 551.23.

.8 **Gems. Ornamental Stones.**

.9 **Other Economic Minerals.**

554 Geology of Europe. 554–559 subdivided by countries like 940–999.

555 Geology of Asia.

556 Geology of Africa.

557 Geology of North America.

558 Geology of South America.

559 Geology of Oceanica. Polar Regions.

560 Paleontology.

561 Plants. 561 is subdivided like Botany, 580.

562 Invertebrates. 562–569 is subdivided like Zoology, 592 599.

563 Protozoa. Radiates.

564 Mollusks.

565 Articulates.

566 Vertebrates.

567 Fishes. Batrachia.

568 Reptiles. Birds.

569 Mammals.

570 Biology.

570.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

571 Prehistoric Archæology.

For Customs, see 390.

.1 **Paleolithic, or Early Stone Age.**
- .11 Drift Remains.
- .12 Cave Men.
- .13 Remains of Animals. Shells.
- .14 Chipped Stones.
- .15 Flint Flakes. Arrow Heads. Knives, etc.
- .16 Other Stone Remains.
- .19 Other Remains.

.2 **Neolithic, or Late Stone Age.**
- .21 Stone Quarries.
- .22
- .23 Remains of Animals.
- .24 Polished Stones.
- .25 Sharpened Stones. Celts. Tools. Weapons.
- .26 Perforated Stones. Spindles. Net Sinkers. Pipes.
- .27 Hollowed Stones. Mortars. Cups. Food Vessels.
- .28 Other Stone Remains.
- .29 Other Remains.

.3 **Bronze Age.**
- .31 Ancient Copper and Tin Mining.
- .34 Bronze Remains.
- .35 Tools. Weapons, etc.
- .37 Cups. Vessels.
- .39 Other Remains

.4 **Iron Age.**

.5 **Other Remains.**
- .51 Implements of Wood.
- .52 Implements of Bone.
- .53 Basket Work.
- .54 Textile Fabrics.
- .55 Pottery.
- .56 Glass.

.6

.7 **Rudiments of Art. Ornaments.**
- .71 Drawings.
- .72 Paint.
- .73 Sculptures.
- .74 Beads.

.8 **Dwellings.**
- .81 Natural Caves.
- .82 Earth Houses. Pit Dwellings. Weems.
- .83 Lake Dwellings. Crannoges.
- .84 Cliff Dwellings.
- .85 Pueblos.

571.9 **Mounds and Monuments.**

.91 Mounds and Mound Builders.
.92 Grave Mounds.
.93 Kitchen Middens. Shell Banks.
.94 Monoliths. Cromlechs.
.95 Circles. Labyrinths.
.96 Cairns.
.97
.98
.99

572 Ethnology.

.1 Unity of the Human Race.
.2 Diversity of Races.
.3 Migrations of Men.
.4
.5
.6
.7
.8 Races divided by Language.
.9 Races divided by Countries.

573 Natural History of Man.

.1 Man's Place in Nature.
.2 Origin of Man.
.3 Antiquity of Man.
.4 Influence of Climate and Surroundings.
.5 Color in Man.
.6 Anthropometry.
.7 Craniology.
.8 Dwarfs and Giants.
.9 Monstrosities.

575 Evolution.

.1 Heredity.
.2 Variation.
.3 Environment.
.4 Natural Selection.
.5 Sexual Selection.
.6 Development. Survival of the Fittest.
.7 Degeneration.
.8 Origin of Species.
.9 Origin of Sexes.

576 Origin and Beginnings of Life.

.1 Spontaneous Generation.
.2 Protoplasm. Bioplasm.
.3 Cells.
.4 Beginnings of Motion and Sensation.
.5
.6

577 Properties of Living Matter.

.1 Chemical. Difference between Organic and Inorganic.
.2 Life. Difference between Dead and Living Matter.
.3 Difference between Vital and Physical Phenomena.
.4 Conditions of Life. Moisture. Temperature.
.5 Difference between Plants and Animals.
.6 Vital Force.
.7 Death.
.8 Sex in Nature.
.9

578 Microscopy.

.1 Varieties of Microscopes.
.2 Optical Parts.
.3 Mechanical Parts.
.4 Accessory Apparatus and Management of Microscope.
.5 Illuminating Apparatus.
.6 Preparation and Mounting of Objects.
.7 Special Preparation of Inorganic Material.
.8 Special Preparation of Botanical Material.
.9 Special Preparation of Zoological Material.

579 Collectors' Manuals.

.1 Preparing Skeletons.
.2 Preservatives and Hardening Fluids.
.3 Injections.
.4 Taxidermy.
.5 Mounting Specimens.
.6
.7 Arrangement of Specimens in Museums.
.8
.9

580 Botany.

580.1, Philosophy, Classification, Nomenclature; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching, Herbariums, Botanic Gardens, .8, Collective Works; .9, History.

581 Physiological and Structural Botany.

Subdivided where wished like 591.

.1 **Physiology.**
.2 **Pathology. Teratology.**
.3 **Embryology. Germination.**
.4 **Morphology. Comparative Anatomy.**
.5 **Habits.**
.6 **Economic.**
.7 **Organography. Descriptive Anatomy.**
.8 **Histology.**

.9 Geographical.

.91 Distribution of Plants.

.93–.99 is subdivided like 930–999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 586 with a reference from 581.97.

General Works covering both Phanerogamia and Cryptogamia are put under 580, as books on Vertebrates and Invertebrates are put under 590.

582 Phanerogamia.

583 Dicotyledonæ.

.1 **Polypetalæ.**
.5 **Gamopetalæ.**
.9 **Apetalæ.**

584 Monocotyledonæ.

.1 **Spadicifloræ.**
.3 **Corollifloræ.**
.8 **Glumiferæ.**

585 Gymnospermæ.

.1 **Gnetaceæ.**
.2 **Coniferæ.**
.9 **Cycadaceæ.**

580 Botany.

580.1, Philosophy, Classification, Nomenclature; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching, Herbariums, Botanic Gardens; .8, Collective Works; .9, History.

581 Physiological and Structural Botany.

Subdivided where wished like 591.

.1 **Physiology.**
.2 **Pathology. Teratology.**
.21 Diseases.
.22 Teratology.
.23 Parasites.
.3 **Embryology. Germination.**
.4 **Morphology. Comparative Anatomy.**
.5 **Habits.**
.6 **Economic.**
.7 **Organography. Descriptive Anatomy.**
.8 **Histology.** See 578.8.

.9 Geographical.

.91 Distribution of Plants.

.93–.99 is subdivided like 930–999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 586 with a reference from 581.97, but No. Am. Phanerogamia goes with 581.97 because it so completely covers the subject.

General Works covering both Phanerogamia and Cryptogamia are put under 580, as books on Vertebrates and Invertebrates are put under 590.

In applying these numbers to Fossil Plants, 561, note that one more figure must be used than in Fossil Animals. The Zoölogy numbers are already given in the third place in Paleontology, e. g. 592 Invertebrates, 562 Fossil Invertebrates, and so on to 599 Mammals, and 569 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogams are 561.2 not 562, which is assigned to Invertebrate Zoölogy as more important. Lichens are 561.91, etc. In the same way the Fossil Flora of North America is 561.197, i. e., the first two Botany figures, 58, are changed to 561 to give the corresponding Fossil Botany number, while in Zoölogy the only change is from 59 to 56 for first two figures, except in 591, which cannot change to 561, which is assigned to Botany. The Fossil Fauna of North America must therefore go among general works under 560.97.

582 Phanerogamia. See also Trees 715.

The sub-sections below are taken from the recognized authority, Bentham and Hooker's Genera Plantarum.

583 Dicotyledonæ.

.1 **Polypetalæ.**
.11 **Ranales.**
.111 Ranunculaceæ.
.112 Dilleniaceæ.
.113 Calycanthaceæ.
.114 Magnoliaceæ.
.115 Anonaceæ.
.116 Menispermaceæ.
.117 Berberideæ.
.118 Nymphæaceæ.

583.12 **Parietales.**
.121 Sarraceniaceæ.
.122 Papaveraceæ.
.123 Cruciferæ.
.131 Capparideæ.
.133 Resedaceæ.
.134 Cistineæ.
.135 Violarieæ.
.137 Canellaceæ.
.138 Bixineæ.
.14 **Polygalineæ.**
.141 Pittosporeæ.
.142 Tremandreæ.
.143 Polygaleæ.
.145 Vochysiaceæ.
.15 **Caryophyllineæ.**
.151 Frankeniaceæ.
.152 Caryophylleæ.
.153 Sileneæ.
.154 Alsineæ.
.155 Polycarpeæ.
.156 Portulaceæ.
.158 Tamariscineæ.
.16 **Guttiferales.**
.161 Elatineæ.
.162 Hypericineæ.
.163 Guttiferæ.
.166 Ternstrœmiaceæ.
.167 Dipterocarpeæ.
.168 Chlænaceæ.
.17 **Malvales.** Malvaceæ.
.18 Sterculiaceæ.
.19 Tiliaceæ.
.21 **Geraniales.**
.211 Lineæ.
.213 Humiriaceæ.
.214 Malpighiaceæ.
.221 Zygophylleæ.
.223 Geraniaceæ.
.23 Rutaceæ.
.241 Simarubeæ.
.245 Ochnaceæ.
.247 Burseraceæ.
.251 Meliaceæ.
.255 Chailletiaceæ.

583.26 **Olacales.**
.261 Olacineæ.
.269 Ilicineæ.
.27 **Celastrales.**
.271 Celastrineæ.
.274 Stackhousieæ.
.275 Rhamneæ.
.279 Ampelideæ.
.28 **Sapindales.**
.281 Sapindaceæ.
.291 Sabiaceæ.
.292 Anacardiaceæ.
.297 **Anomola.**
.298 Coriarieæ.
.299 Moringeæ.
.30 **Rosales.**
.31 Connaraceæ.
.32 Leguminosæ.
.37 Rosaceæ.
.38 Saxifrageæ.
.39 Crassulaceæ.
.393 Droseraceæ.
.394 Hamamelideæ.
.396 Bruniaceæ.
.398 Halorageæ.
.40 **Myrtales.**
.411 Rhizophoreæ.
.414 Combretaceæ.
.42 Myrtaceæ.
.43 Melastomaceæ.
.441 Lythrarieæ.
.445 Onagrarieæ.
.45 **Passiflorales.**
.451 Samydaceæ.
.453 Loaseæ.
.455 Turneraceæ.
.456 Passifloreæ.
.461 Cucurbitaceæ.
.468 Begoniaceæ.
.469 Datisceæ.
.47 **Ficoidales.**
.471 Cacteæ.
.475 Ficoideæ.
.48 **Umbellales.**
.481 Umbelliferæ.
.491 Araliaceæ.
.497 Cornaceæ.

583.5 **Gamopetalæ.**

.51 **Rubiales.** Caprifoliaceæ.
.52 Rubiaceæ.
.53 **Asterales.**
.531 Valerianeæ.
.541 Dipsaceæ.
.546 Calycereæ.
.55 Compositæ.
.57 **Campanales.** Stylidieæ.
.58 Goodenovieæ.
.59 Campanulaceæ.
.6 **Ericales.**
.61 Vacciniaceæ.
.62 Ericaceæ.
.63 Monotropeæ.
.64 Epacrideæ.
.65 Diapensiaceæ.
.66 Lennoaceæ.
.67 **Primulales.**
.671 Plumbagineæ.
.672 Primulaceæ.
.677 Myrsineæ.
.68 **Ebenales.**
.681 Sapotaceæ.
.685 Ebenaceæ.
.686 Styraceæ.
.7 **Gentianales.**
.71 Oleaceæ.
.716 Salvadoraceæ.
.72 Apocynaceæ.
.73 Asclepiadeæ.
.74 Loganiaceæ.
.75 Gentianeæ.
.76 **Polemoniales.**
.761 Polemoniaceæ.
.764 Hydrophyllaceæ.
.77 Boragineæ.
.78 Convolvulaceæ.
.79 Solanaceæ.
.8 **Personales.**
.81 Scrophularineæ.
.821 Orobanchaceæ.
.825 Lentibularieæ.
.829 Columelliaceæ.
.83 Gesneraceæ.
.84 Bignoniaceæ.
.85 Pedalineæ.
.86 Acanthaceæ.
.87 **Lamiales.**
.871 Myoporineæ.
.876 Selagineæ.
.88 Verbenaceæ.
.891 Labiatæ.
.899 **Ordo anomalus.** Plantagineæ.

583.9 **Apetalæ.**

.91 **Curvembryeæ.**
.911 Nyctagineæ.
.912 Illecebraceæ.
.913 Amarantaceæ.
.914 Chenopodiaceæ.
.915 Phytolaccaceæ.
.916 Batideæ.
.917 Polygonaceæ.
.92 **Multiovulatæ Aquaticæ.**
.921 Podostemaceæ.
.922 **Multiovulatæ Terrestres.** Nepenthaceæ.
.923 Cytinaceæ.
.924 Aristolochiaceæ.
.925 **Micrembryeæ.** Piperaceæ.
.926 Chloranthaceæ.
.927 Myristiceæ.
.928 Monimiaceæ.
.93 **Daphnales.**
.931 Laurineæ.
.932 Proteaceæ.
.933 Thymelæaceæ.
.934 Penæaceæ.
.935 Elæagnaceæ.
.94 **Achlamydosporeæ.**
.941 Loranthaceæ.
.943 Santalaceæ.
.947 Balanophoreæ.
.95 **Unisexuales.**
.951 Euphorbiaceæ.
.961 Balanopseæ.
.962 Urticaceæ.
.971 Platanaceæ.
.972 Leitnerieæ.
.973 Juglandeæ.
.974 Myricaceæ.
.975 Casuarineæ.
.976 Cupuliferæ.
.98 **Anomali.**
.981 Salicineæ.
.983 Lacistemaceæ.
.984 Empetraceæ.
.987 Ceratophylleæ.

584 Monocotyledonæ.

.1 **Microspermeæ.**
.11 Hydrocharideæ.
.13 Burmanniaceæ.
.15 Orchideæ.
.2 **Epigyneæ.**
.21 Scitamineæ.
.22 Bromeliaceæ.
.23 Hæmodoraceæ.
.24 Irideæ.
.25 Amaryllideæ.
.26 Taccaceæ.
.27 Dioscoreaceæ.
.3 **Coronarieæ.**
.31 Roxburghiaceæ.
.32 Liliaceæ.
.34 Pontederiaceæ.
.35 Philydraceæ.
.36 Xyrideæ.
.37 Mayaceæ.
.38 Commelinaceæ.
.39 Rapateaceæ.
.4 **Calycineæ.**
.41 Flagellarieæ.
.45 Juncaceæ.
.5 Palmæ.
.6 **Nudifloreæ.**
.61 Pandaneæ.
.62 Cyclanthaceæ
.63 Typhaceæ.
.64 Aroideæ.
.68 Lemnaceæ.
.7 **Apocarpeæ.**
.71 Triurideæ.
.72 Alismaceæ.
.74 Naiadaceæ.
.8 **Glumaceæ.**
.81 Eriocauleæ.
.82 Centrolepideæ.
.83 Restiaceæ.
.84 Cyperaceæ.
.9 Gramineæ.

585 Gymnospermæ.

.1 **Gnetaceæ.**
.2 **Coniferæ.**
.9 **Cycadaceæ.**

586 Cryptogamia.

587 Pteridophyta.

.1 **Isoeteæ.**
.2 **Equisetæ.**
.3 **Filicinæ.**
.9 **Lycopodinæ.**

588 Bryophyta.

.1 **Sphagna.**
.2 **Musci.**
.3 **Hepaticæ.**
.4 **Characeæ.**

589 Thallophyta.

.1 **Lichenes.**
.11 **Basidiolichenes.**
.15 **Ascolichenes.**
.16 Angiocarpæ.
.17 Gymnocarpæ.
.18 Gelatinosæ.
.19 Byssaceæ.
.2 **Fungi.**
.21 **Carposporeæ.**
.22 Basidiomycetes.
.221 Gasteromycetes.
.222 Hymenomycetes.
.224 Tremellinæ.
.225 Uredineæ.
.227 Ustilagineæ.
.229 Entomophthoreæ.
.23 **Ascomycetes.**
.231 Tuberaceæ.
.233 Discomycetes.
.235 Pyrenomycetes.
.238 Gymnoasceæ.
.24 **Oosporeæ.**
.25 Peronosporeæ.
.26 Saprolegnieæ.
.27 **Zygosporeæ.**
.28 Zygomycetes.
.29 Myxomycetes.
.3 **Algæ.**
.4 **Carposporeæ.**
.41 Florideæ.
.47 Coleochaeteæ.
.5 **Oosporeæ.**
.6 **Zygosporeæ.**
.61 Conjugateæ.
.67 Zoosporeæ.
.7 **Protophyta.**
.8 **Chlorophyllaceæ.**
.9 **Achlorophyllaceæ.**
.91 Saccharomycetes. Yeast.
.95 Schizomycetes. Bacteria. Microbes.

586 Cryptogamia.

587 Pteridophyta.

.1 Isoeteæ.
.2 Equisetæ.
.3 Filicinæ.
.9 Lycopodinæ.

588 Bryophyta.

.1 Sphagna.
.2 Musci.
.3 Hepaticæ.
.4 Characeæ.

589 Thallophyta.

.1 Lichens.
.2 Fungi.
.3 Algæ.
.4 Carposporæ.
.5 Oosporæ.
.6 Zygosporæ.
.7 Protophyta.
.8 Chlorophyllæ.
.9 Achlorophyllæ. Yeast. Bacteria.

In applying these numbers to Fossil Plants, 561, note that one more figure must be used than in Fossil Animals. The Zoology numbers are already given in the third place in Paleontology, e. g. 592 Invertebrates, 562 Fossil Invertebrates, and so on to 599 Mammals, and 569 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogams are 561.2 not 562, which is assigned to Invertebrate Zoology as more important. Lichens are 561.91, etc. In the same way the Fossil Flora of North America is 561.197, i. e., the first two Botany figures, 58, are changed to 561 to give the corresponding Fossil Botany number, while in Zoology the only change is from 59 to 56 for first two figures, except in 591, which can not change to 561, which is assigned to Botany. The Fossil Fauna of North America must therefore go among general works under 560.

590 Zoology.

590.1, Philosophy, Classification; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Zoological Gardens, Aquaria, Museums; .8, Collective Works; .9, History.

591 Physiological Zoology.

.1 Physiology.

.11 Circulation.

.12 Respiration.

1, Nature; 2, Dermal; 3, Aquivascular; 5, Branchial; 6, Tracheal; 7, Pulmonary; 9, Exhalation of Aqueous Vapor.

.13 Nutrition.

1, Acquisition of Food; 2, Digestion of Food; 3, Assimilation of Food; 4, Growth; 5, Development; 6, Repair of Waste; 7, Production of Organic Material; 8, Conditions of Nutritive Activity; 9, Longevity, Vitality.

.14 Secretion and Excretion.

1, Mucous and Sebaceous; 2, Sericeous; 3, Digestive, salivary, gastric, pancreatic, 4, Odoriferous, sweet, etc.; 5, Poisonous, gall-formation, caprification; 6, Mammary, spermatic; 7, Lachrymal, 8, Biliary; 9, Urinary and Fecal.

.15 Variation.

1, Polymorphic; 2, Geographic; 3, Heterophagic; 4, Polygoneutic; 5, Mimetic; 6, Sexual; 7, Hybrids; 8, Monstrosities.

.16 Generation.

1, Abiogenesis; 2, Parthenogenesis, neuters; 3, Metagenesis, pædogenesis, nurses; 5, Fission and Gemmation; 6, Fecundation; 7, Hermaphrodites, 8, Vivipara; 9, Superfœtation.

.17 Histogenesis.

1, Development of Sperm-cells; 2, Development of Germ-cells, micropyle; 9, Reparation of Wounds.

.18 Nervous Functions and Sensation.

.19 Other Functions.

.2 Pathology.

.3 Embryology.

33, Development of Embryo; 34, Metamorphosis, larva, pupa, moulting; 35, Hypermetamorphosis; 36, Production of Sexes.

.4 Morphology. Comparative Anatomy.

.41 Circulatory Organs.

.42 Respiratory Organs.

.43 Nutritory Organs.

.44 Secretory and Excretory Organs.

.45

.46 Generatory Organs.

.47 Motory Organs.

.48 Nervous System.

.49 Integument. Dermoskeleton. Skeleton.

.5 Habits and Behavior.

.51 Instinct. Reason.

.52 Abode. Migration.

.53 Food.

.54 Seasons. Hibernation.

.55 Sociability.

.56 Philoprogenitiveness. Breeding.

.57 Means of Protection.

.58

.59 Other Habits.

591.6 Economic.

.61 Usefulness.

.62 In Nature.

.63 As Food and Medicine for Man.

.64 In Chemistry and Manufactures.

.65 Noxiousness.

.66 Offensive Animals.

.67 Animals causing Diseases.

.68 Injuring Vegetable and Animal Products and Inorganic Substances.

.69 Injuring Living Plants and Animals.

.7 Organography. Descriptive Anatomy.

Subdivided like 591.4, Morphology.

.8 Histology.

.9 Geographical Distribution of Animals.

Subdivided like 930–999.

592 Invertebrates.

593 Protozoans. Radiates.

.1 Protozoans.

.11 Rhizopoda.

.12 Foraminifera.

.13 Heliozoa.

.14 Radiolaria. Polycystina.

.15 Infusoria.

.16 Flagellata.

.17 Ciliata.

.18

.19 Gregarinidæ.

.2 Radiates.

.3 Cœlenterata.

.4 Sponges. Porifera. Spongia.

.5 Cnidaria.

.6 Actinozoa. Polyps. Corals and Sea Anemones.

.61 Rugosa. Tetracorolla.

.62 Alcyonaria. Octocorolla.

.63 Zoantharia. Hexacorolla.

.64 Antipatharia.

.65 Actinaria.

.66 Madreporaria.

.7 Hydrozoa.

.71 Hydromedusæ.

.72 Siphonophora.

.73 Acalepha.

.74 Calycozoa.

.76 Marsupialida.

.77 Discophora. Jelly Fish.

.8 Ctenophora. Jelly Fish.

593·9 Echinodermata.
- ·91 Crinoidea. Sea Lilies.
- ·92 Asteroidea. Star Fish.
- ·93 Stelleridea.
- ·94 Ophiuridea.
- ·95 Echinoidea. Sea Urchins.
- ·96 Holuthuroidea. Sea Cucumbers.
- ·97 Pedata.
- ·98 Apoda.
- ·99 Enteropneusta.

594 Mollusks.
- .1 Lamellibranchiata. Bivalves.
- .2 Scaphopoda.
- ·3 Gastropoda. Univalves.
- .4 Pteropoda. Winged Shells.
- ·5 Cephalopoda. Squids and Cuttle Fish.
- .6 Molluscoidea.
- .7 Bryozoa. (Polyzoa.) Sea Mats.
- .8 Brachiopoda. Lamp Shells.
- .9 Tunicata. (Ascidia.) Sea Grapes.

595 Articulates.
- .1 Worms. Vermes.
- .2 Arthropoda.
- ·3 Crustacea.
  - ·31 Entomostraca. Cyclops, Shrimps, etc.
  - ·32 Phyllopoda.
  - ·33 Ostracoda.
  - ·34 Copepoda.
  - ·35 Cirrepedia. Barnacles, etc.
  - ·36 Malacostraca. Sandbugs, Crabs, Lobsters, etc.
  - ·37 Arthrostraca.
  - ·38 Thoracostraca.
  - ·39 Gigantostraca. Trilobites.
- ·4 Arachnida. Spiders. Scorpions.
- ·5 Onychophora.
- .6 Myriopoda. Centipedes, etc.
- ·7 Insects. Insecta. Hexapoda.
  - ·71 Thysanura.
  - ·72 Neuroptera. Dragon Flies, etc.
  - ·73 Orthoptera. Grasshoppers, etc.
  - ·74 Hemiptera. Bugs, etc.
  - ·75 Coleoptera. Beetles, etc.
  - ·76 Diptera. Flies, etc.
  - ·77 Lepidoptera. Butterflies, Moths.
  - ·78 Hymenoptera. Bees, Wasps, etc.

596 Vertebrates.

597 Fishes. Pisces.
- .1 Pharyngobranchii. Lancelet.
- .2 Marsipobranchii. Lampreys.
- ·3 Elasmobranchii. Sharks, Rays, etc.
- .4 Ganoidii. Sturgeons, Garpikes, etc.
- ·5 Teleostii. True bony fishes.
- .6 Batrachia. (Amphibia.)
- ·7 Ophiomorpha.
- .8 Anura. Toads, Frogs.
- .9 Urodela. Salamanders.

598 Reptiles. Birds.
- .1 Reptiles.
  - .11 Lacertilia. Lizards.
  - .12 Ophidia. Snakes.
  - .13 Chelonia. Turtles.
  - .14 Crocodilia. Crocodiles.
  - .15 Ichthyopterygia.
  - .16 Sauropterygia.
  - .17 Anomodontia.
  - .18 Pterosauria.
  - .19 Dinosauria.
- .2 Birds. Aves.
  - ·3 Grallatores. (Waders.)
  - .4 Natatores. (Swimmers.)
  - ·5 Cursores. (Runners.)
  - .6 Rasores. (Scratchers.)
  - ·7 Scansores. (Climbers.)
  - .8 Insessores. (Perchers.)
  - .9 Raptores. (Birds of Prey.)

599 Mammals. Mammalia.
- .1 Monotremata. Duck-billed Platypus.
- .2 Marsupialia. Kangaroos, Opossums.
- ·3 Edentata. Rodentia. Insectivora. Sloths. Rodents. Moles.
- .4 Cheiroptera. Bats.
- ·5 Cetacea. Sirenia. Whales, etc.
- .6 Proboscidea. Hyracoidea. Elephants. Hyrax.
- ·7 Ungulata. Carnivora. Domestic Mammals.
- .8 Quadrumana. Apes.
- .9 Bimana. Man.

Useful Arts.

600 Useful Arts.

601 Philosophy. Theories, etc.

602 Compends. Outlines.

603 Dictionaries. Cyclopedias.

604 Essays. Lectures. Addresses.

605 Periodicals. Magazines. Reviews.

606 Societies. Fairs. Exhibitions.

607 Education. Schools of Technology.

608 Patents. Inventions.

609 History of Useful Arts in General.

For its History, see each special department.

610 Medicine.

It has seemed better to leave a number of subjects undivided in this edition rather than print a hurriedly made subdivision which would need to be altered or extended. Medicine will be divided minutely for the use of medical libraries and physicians in keeping notes, etc. As fast as the extended divisions are made they will be printed on sheets in form for insertion in these books at their proper place. Specialists interested in any topic where further subdivision would be useful, are urged to send their suggestions and schemes to the author to be used for the common benefit of users of the system. The subdivisions of 623 indicate and illustrate this point. For these the author is chiefly indebted to Mr. Chas. H. Swan, late City Engineer of Providence, R. I., now of Boston.

611 Anatomy.

612 Physiology.

613 Hygiene. Gymnastics. Training.

614 Public Health. See also 629, Sanitary Engineering.

615 Materia Medica. Therapeutics.

616 Pathology. Diseases. Treatment.

617 Surgery. Dentistry. Anæsthetics.

618 Obstetrics. Sexual Science. See 176, Sexual Ethics.

619 Veterinary Medicine.

620 Engineering.

.01, Statistics; .02, Quantities and Cost; .03, Contracts and Specifications; .04, Designs and Drawings; .05, Executive; .06, Working and Maintenance; .07, Laws; .08, Patents; .09, Reports.

.1, Strength of Materials; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Tables and Calculations; .9, History of Engineering.

621 Mechanical Engineering.

May be subdivided like 620 and 620.0.

.1 **Steam Engineering.** See 536.81.

.11 Mechanism of Steam Engine.

.12 Marine Engines and Ship Propulsion. See 699.

.13 Locomotive Engines.

.14 Traction Engines.

.15 Portable Engines.

.16 Stationary Engines.

.17

.18 Steam Generation. Boilers. Furnaces.

.19 Steam Heating. See 697.

.2 **Water Engines or Motors.**

.21 Water Wheels. See 532.84.

.22 Overshot and Breast Wheels.

.23 Undershot Wheels.

.24 Turbines.

.25 Water Pressure Engines. See 532.82.

.26 Hydraulic Presses. See 532.81.

.27 Hydraulic Ram. See 532.83.

.28

.29 Mill Dams. Sluices, etc. See 628.

.3 **Electrical Machines.**

.31 Dynamo Machines. See 537.83.

.32 Electric Lighting. See 537.83.

.33 Electric Railways.

.34 Transmission of Electric Force. See 537.84.

.35 Storage of Electric Force. See 537.84.

.4 **Air and Gas Engines.**

.41 Caloric Engines.

.42 Compressed Air Engines.

.43 Ignited Gas Engines. See 536.82.

.44 Binary Vapor Engines.

.45 Windmills.

.5 **Air Compressors. Ice Machines.**

.6 **Blowing and Pumping Engines.**

.61 Piston Blowers.

.62 Rotary Blowers. Fans.

.63 Centrifugal Blowers.

.64 Steam Pumps and Pumping Engines.

.65 Piston Pumps.

.66 Rotary Pumps.

.67 Centrifugal Pumps.

.68 Fire Engines. See 352.3, Fire Dep't.

.69

621.8 Mill Work and Mechanism.

.81 Principles of Mechanism. See 531.8.
.82 Journals, Shafting, etc.
.83 Toothed Wheels.
.84 Valve Motions and Gears.
.85 Machinery and Mill Gearing.
.86 Hoisting and Conveying Machinery.
.87 Cranes and Elevators.
.88
.89

.9 Machine Tools.

.91 Planing Machines.
.92 Grinding and Filing.
.93 Cutting and Sawing.
.94 Turning and Milling. Lathes.
.95 Perforating. Drills.
.96 Punching and Shearing.
.97 Hammers. Riveting.
.98 Bending. Straightening. Shaping.
.99 Fastening. Bolts. Rivets. Screws.

622 Mining Engineering.

May be subdivided like 620 and 620.0.

.1 Exploration and Prospecting.

.11 Theory. Applied Geology, etc.
.12 Prospecting. Practical Methods.
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19.
.17
.18
.19 Mining Prospectuses. See 553.

.2 Practical Mining.

.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering.

.3 Working of Mines. Exploitation.

.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Coal Mining. See 553.2.
.34 Metal Mining. See 553.3 and .4.
.35 Working Thick Deposits.
.36 Salt Mining. See 553.63.

622.4 Ventilation and Lighting of Mines.

.41 Theory. Gases met with, etc.
.42 Natural Ventilation.
.43 Furnaces. Steam Jets, etc.
.44 Fans. See 621.62.
.45 Airways. Stoppings. Regulators.
.46 Measurement of Ventilation.
.47 Lighting. Safety Lamps, etc.

.5 Drainage.

.51 Theory of Infiltration of Water.
.52 Natural Drainage.
.53 Cornish Pumps. See 621.64.
.54 Steam Pumps. See 621.64.
.55 Hoisting of Water.
.56 Dams and Watertight Linings.
.57 Acid Waters.

.6 Extraction. Hoisting and Transportation.

.61 Handling Mineral in Working Place.
.62 Underground Roads.
.63 Mine Cars. Trams, etc.
.64 Gravity Roads and Planes.
.65 Tramming and Animal Haulage. See 625.7.
.66 Mechanical Haulage.
.67 Hoisting Engines. Drums. Ropes.
.68 Cages. Skips. Buckets.
.69 Surface Transportation.
Including Mineral Roads, Wire Rope-ways, Transhipment, Loading and Unloading, etc.

.7 Mechanical Preparation. Ore Dressing.

.71 Theory. Preliminary Operations.
.72 Hand Dressing.
.73 Crushing. Stamping Engine.
.74 Screening.
.75 Jigging. Ore Concentrators.
.76 Slime Treatment.
.77 Magnetic Separation.
.78 Coal Washing.
.79 Dressing Works.

.8 Dangers and Accidents.

.81 Explosions of Fire-Damp.
.82 Mine Fires.
.83 Crushing and Fall of Ground.
.84 Flooding of Mines.
.85 Accidents to Miners.
.86 Rescue and Relief.
.87
.88
.89

623 Military and Naval Engineering.

For Military and Naval Science, Maneuvers, Strategy and Tactics, see 355 to 359.

.1 Fortifications. Field and Permanent.
.2 Siege Operations; Mines, etc.
.3 Defensive Operations.
.4 Ordnance and Projectiles.
.5 Gunnery.
.6 Military Roads and Bridges.
.7 Military Signals; Telegraph, Ballooning, etc.
.8 Naval Architecture.
.9 Armored Vessels, Torpedoes, etc.

624 Bridges and Roofs.

.1 Piers. Foundations, etc.
.2 Girders. Stresses and Strains.
.3 Trussed Bridges.
.4 Tubular Bridges.
.5 Suspension Bridges.
.6 Arched Bridges.
.7 Compound Structures.
.8 Movable Bridges.
.9 Roofs.

625 Railroad and Road Engineering.

See also 624, Bridges; and 622.2, Tunnels; 622.26, Excavations, etc.

.1 Route. Road Bed, Rails, Ties, etc.
.2 Trains. Brakes, Couplings, Wheels, etc.
.3 Inclines and Mountain Railways.
.4 Elevated Roads.
.5 Cable Roads.
.6 Horse Cars. Tramways.
.7 Roads. Highways.
.8 Pavements.
.9 Ship Railways.

626 Canal Engineering.

.1 Route.
.2 Water Supply.
.3 Size and Shape.
.4 Locks.
.5 Lifts and Inclined Planes.
.6 Canal Boats. Size, Shape, etc. See 699, Shipbuilding.
.7 Towing. Power, etc.
.8 Irrigation Canals and other Irrigation Works.
.9 Ship Canals.

627 River and Harbor Engineering.

.1 Rivers. Force of Water. Discharge. Bars.
.2 Harbors. Breakwaters.
.3 Docks. Piers. Quays. Shipping Facilities.
.4 Dikes and Levees. Embankments.
.5 Other Protection and Reclamation of Land from Tides and Waves. Drainage. For Agricultural Drainage see 631.
.6 Jetties.
.7 Dredging.
.8 Dams.
.9 Lighthouses.

628 Sanitary Engineering. Water-works.

.01, Theories, Utility; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals, ; .06, Societies; .07, Study and Teaching; .08, Polygraphy; .09, History and Description of General Sanitary Works, divided geographically like 930–999.

.1 **Water Supply of Towns.** For isolated supply see 628.7.

.11, Sources of Water Supply; Lakes, Rivers, Springs, Wells, and Pumping. .12, Pumping vs. Gravitation Systems; Pump-well; Stand-pipe; High Service; Holly System. .13, Storage and Service Reservoirs. .14, Conduits; Aqueducts; Tunnels (see 622) .15, Mains and Service Pipes; Freezing; Iron; Lead. .16, Impurities and their Removal; Filter-basins, etc. .17, Public (Sprinkling, Fire, Flushing), Manufacturing, and Domestic Use and Waste; Meters.

.2 **Sewerage Works.**

.21 Sewerage Systems.

1, Combined System; 2, Separate System; 3, Liernur System; 4, Shone System; 5, Berlier System; 6, Other Systems; 7, The Outfall; 8, Depth and Allignment; 9, Grade and Velocity.

628.22 Shape and Size of Sewers.
1, Storm-water Flow; 2, Ordinary Flow; 3, Circular Section; 4, Ordinary Egg-Shape; 5, Other Egg-Shapes; 6, Other Forms; 7, ; 8, Formulas for Size.

.23 Ventilation of Sewers.
1, Openings in Streets; 2, Lamp Posts; 3, Flues in Houses; 4, Pipes on Houses; 5, House Drains; 6, Chimneys and Furnaces; 7, Charcoal and Chemicals to deodorize sewerage gas; 8, Special Mechanism; 9, Special Construction.

.24 Design and Construction of Sewers.

.25 Sewer Appurtenances.
1, Junctions; 2, House Connections; 3, Manholes and Lampholes; 4, Flushing Shafts and Fixtures; 5, Catch Basins and Inlets; 6, Traps and Ventilators; 7, Valves and Penstocks; 8, Overflows and Regulators; 9, Miscellaneous.

.26 River Crossings.

.27 Intercepting and Outfall Sewers.

.28 Reservoirs and Tank Sewers.

.29 Pumping Stations.

.3 Disposal of Sewage.

.31 Physical Properties of Sewage.

.32 Deodorization and Disinfection of solids and liquids. See 629.237.

.33 Subsidence.

.34 Precipitation.
1, Precipitation Tanks; 2, Mixing Machinery; 3, Filter Presses; 4, Precipitation by Salts of Alumina; 5, By Lime; 6, By Salts of Iron; 7, By Other Methods; 8, Disposal of Sludge; 9, Miscellaneous.

.35 Filtration.

.36 Irrigation.
1, Broad Irrigation; 2, Ridge and Furrow Irrigation; 3, Flat Bed Irrigation; 4, Sub-Surface Irrigation; 5, Intermittent Downward Filtration; 6, Carriers and Appurtenances; 7, Drains and Drainage of Sewage Farms; 8, Filtration Areas; 9, Miscellaneous.

.37 Sewage Farming. Required modifications of ordinary methods.

.38 Sewage Manures.

.39 Discharge into Sea, etc.

.4 Scavenging of Towns.

.41 Middens and Privies.

.42 Pail Systems.

.43 Earth Closet Systems.

.44 Domestic Ashes and Garbage.

.45 Public Urinals and Latrines.

.46 Street Cleaning.

.5 Industrial Sanitation.

.51 Factories and Trades.
1, Prevention of Dust and Fumes; 2, Protection of Throat and Eyes; 3, Protection against Infection; 9, Special Trades.

.52 Effluvium Nuisances.
1, Situation of Works; 2, Use of High Chimneys; 3, Condensation in Water; 4, Combustion in Furnaces; 9, Special Trades.

.53 Smoke Nuisance.
8, From Steam Generators; 9, From Special Industries.

.54 Disposal of Solid and Liquid Wastes.
1, Discharge into Streams; 2, Absorbing Wells and Burial; 3, Clarification by Subsidence; 4, Chemical Treatment; 5, Filtration; 6, Purification by the Soil; 9. Special Methods and Special Trades.

.6 House Drainage.

.7 Rural Water Supply. Villages and Country houses.

.8 Ventilation and Heating. See 697, 644, 629.23, 622.4.

.9 Lighting. See 621.32, 537.83, 644, 665.

629 Other Branches of Engineering.

630 Agriculture.

To be subdivided more closely. See note under 610.

631 Soil. Fertilizers. Drainage.

632 Pests. Hindrances. Blights. Insects.

633 Grains. Grasses. Fibres. Tea, etc.

634 Fruits. Orchards. Vineyards.

635 Kitchen Garden. See 716, for Flower Gardens.

636 Domestic Animals.

.1 Horses.

.2 Cattle.

.3 Sheep, Goats.

.4 Swine.

.5 Poultry.

.6 Birds.

.7 Dogs.

.8 Cats.

.9 Other.

637 Dairy. Milk. Butter. Cheese.

638 Bees. Silkworms.

639 Fishing. Trapping.

640 Domestic Economy.

641 Cookery. Gastronomy.

642 Confectionery. Ices.

643 Food. Dining. Carving.

644 Fuel. Lights. See also 697, 665, 621.32.

645 Furniture. Carpets. Upholstery.

646 Clothing. Toilet. Cosmetics.

647 Servants. Training. Duties. Wages.

648 Laundry.

649 Nursery. Children. Sick-room.

650 Communication. Commerce.

651 Writing. Cipher. Typewriters.
652 Penmanship. Materials. Methods.
653 Short Hand. Abbreviations.
654 Telegraphy. Cables. Signals.
655 Printing. Type. Stereos. Publishing.
656 Transportation. Railroading, etc.
657 Book-keeping. Accounts.
658 Business Manuals. Methods. Tables.
659 Advertising and other Topics.

660 Chemical Technology.

661 Chemicals; Acids, Alkalies, Salts, Paints, etc.
662 Pyrotechnics. Explosives. Matches, etc.
663 Beverages; Wines, Liquors, Ales, Mixtures, etc.
664 Foods; Sugar, Starch, Preservation of Meat, etc.
665 Lights; Gas, Oil, Candles, Lamps, etc.
666 Ceramics. Glass, Clay, Cement, Bricks, etc.
667 Bleaching. Dyeing. Inks, etc.
668 Other Organic Chemical Industries. Soap, etc.

669 Metallurgy and Assaying.

.1 Iron and Steel.
.2 Gold and Silver.
.3 Copper.
.4 Lead.
.5 Zinc.
.6 Tin.
.7 Mercury and other Metals.
.8 Fuels and Furnaces.
.9 Assaying.

670 Manufactures.

671 Articles made of Metals.
672 Of Iron and Steel; Stoves, Cutlery, etc.
673 Of Brass and Bronze; Bells, etc.
674 Lumber and Articles made of Wood.
675 Leather " " " " Leather.
676 Paper " " " " Paper.
677 Cotton, Wool, Silk, Linen, etc.
678 Rubber and Articles made of Rubber.
679 Celluloid and other.

680 Mechanic Trades.

681 Watch and Instrument-making.
682 Blacksmithing. Horseshoeing.
683 Lock and Gun-making.
684 Carriage and Cabinet-making.
685 Saddlery and Shoe-making. Trunks.
686 Bookbinding.
687 Clothes-making. Hats.
688
689 Other Trades.

690 Building.

691 Materials. Timber, Stone, etc. See 620.1.
692 Plans and Specifications.
693 Masonry. Plastering, etc.
694 Carpentry. Stair-building.
695 Slating and Tiling.
696 Plumbing. Gas and Steam-fitting.
697 Warming and Ventilation.
698 Painting, Glazing and Paper-hanging.
699 Car and Ship-building. See 623.8.

Fine Arts.

700 Fine Arts.

701 Philosophy. Theories. Utility. Æsthetics.
702 Compends. Outlines.
703 Dictionaries. Cyclopedias.
704 Essays. Lectures. Addresses.
705 Periodicals. Magazines. Reviews.
706 Societies. Transactions. Reports, etc.
707 Education. Study and Teaching of Art.
708 Art Galleries and Museums.
.1 American. Corcoran, Metropolitan, Boston.
.2 English. National, Hampton Court, Windsor.
.3 German. Dresden, Munich, Berlin, Vienna.
.4 French. Louvre, Luxembourg.
.5 Italian. Vatican, Sistine, Pitti, Medici, Borbonico.
.6 Spanish. Madrid, Seville.
.7 Russian. St. Petersburg, Hermitage.
.8 Scandinavian. Copenhagen.
.9 Other Countries.
709 History of Art in General.

710 Landscape Gardening.

711 Public Parks.
712 Private Grounds. Lawns.
713 Walks. Drives.
714 Water. Fountains. Lakes.
715 Trees. Hedges. Shrubs.

716 Plants. Flowers. Conservatories.
717 Arbors. Seats. Outlooks.
718 Monuments. Mausoleums.
719 Cemeteries. See also 393.

720 Architecture.

To be further subdivided. See note under 610.

721 Architectural Construction.
722 Ancient and Oriental.
723 Medieval. Gothic.
724 Modern.
725 Public Buildings.
726 Church. Cathedral.
727 College. School.
728 Domestic. Rural. Villas.
729 Of Special Countries. Divided like 930–999.

730 Sculpture.

731 Materials and Methods.
732 Ancient.
733 Greek and Roman.
734 Medieval.
735 Modern.
736 Carving. Seals. Dies. Gems.
737 Numismatics. Coins. Medals.
738 Pottery. Porcelain.
739 Bronzes. ~~Medals~~. Bric-a-brac.
Brasses

740 Drawing. Decoration.

741 Free-hand. Crayon. Sketching from Nature.

742 Perspective. See also 515.6.

743 Art Anatomy. Life School.

744 Mathematical and Scientific Drawing. See 515.

745 Ornamental Design. Woven Fabrics. Carpets. Wall Paper, etc.

746 Art Needlework.

747 Interior Decoration. Distemper. Fresco. Polychrome.

748 Stained and Iridescent Glass.

749 Artistic Furniture. Fireplaces. Frames, etc.

750 Painting.

751 Materials and Methods.

752 Color.

753 Epic. Mythic. Idealistic. See 759.3, German School.

754 Genre. Still Life. See 759.4, French; and 759.9, Belgian.

755 Religious. Ecclesiastic. See 759.5, Italian; and 759.6, Spanish.

756 Historical. Battle Scenes.

757 Portrait.

758 Landscape and Marine. Animals. Flowers.

759 Various Schools of Painting.

1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other Schools.

760 Engraving.

761 Wood.

762 Copper and Steel.

763 Lithography.

764 Chromolithography.

765 Line and Stipple.

766 Mezzotint and Aquatint.

767 Etching. Dry Print.

768 Bank Note and Machine.

769 Collections of Engravings.

770 Photography.

771 Materials. Photographic Chemistry.

772 Silver Processes. Daguerreotype. Talbotype. Collodion Process. Ambrotype, etc. Dry-Plate Processes.

773 Gelatine and Pigment Processes. Woodburytype. Carbon Process. Lambertype. Autotype, etc.

774 Gelatine and Printer's Ink Processes. Albertype. Heliotype. Artotype, etc.

775 Photo-lithography, etc.

776 Photo-zincography, etc.

777 Photo-engraving and Photo-electrotyping.

778 Special Applications. See 522.63, Astronomy. See 578, Microscopy.

779 Collections of Photographs.

780 Music.

.1, Philosophy and Æsthetics of Music; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Conservatories; .8, Polygraphy, Libraries; .9, History. All heads include both the music itself and everything about it: Score, Libretto, History, Criticism, etc.

781 Theory of Music.

.1 Mathematical and Physical.
.2 Elementary and General.
.3 Harmony. Thoroughbass.
.4 Counterpoint.
.5 Musical Form.
.6 Composition and Instrumentation.
.7 Oriental Theories and Forms. Russian Music.
.8 Ancient Grecian Theories, Modes, and Forms.
.9

782 Dramatic Music.

.1 Grand Opera.
.2 Epic. Wagnerian.
.3 Other German Grand Opera.
.4 French Grand Opera.
.5 Italian Grand Opera.
.6 Comic and Satirical.
.7 Opera Bouffe.
.8 Operettas and Cantatas.
.9 Pantomimes. Masks, etc.

783 Sacred Music. See 245, Hymnology, Sacred Poetry; 786.8, Organ.

.1 Organ and Orchestral. Accompaniment.
.2 Cathedral Services. Masses. Vespers, etc.

.21, Mass. Communion Services; .22, Common of the Mass; Kyrie, Gloria in Excelsis, Credo, Benedictus, Agnus Dei; .23, Proper of the Season; Offertory, Sequence. Gradual, Tract; .24, Choral Service; Antiphonal, Responsive; .25, Plain Song; .26, Litanies; .27, Lenten and Penitential; Good Friday, "Reproaches"; .28, Festival; Christmas, Easter, etc.; .29, Processional. Recessional.

.3 Oratorio. Passion Music.
.4 Anthem. Motet. Sacred Cantata. Polyphonic School, Palestrina. 16th Century.
.5 Chant. Gregorian. Anglican.
.6 Chorale. Tune. Carol.
.7 Evangelistic. Mission. Revival. Sunday School.
.8 Choir. Men and Boys. Quartet. Chorus.
.9 Congregational Singing. Psalmody. Hymnody.

784 Vocal Music.

.1 Glee. Madrigal. Round. Catch.
.2 Aria. Cavatina. Recitative. e. g. in Oratorio, Mass, Opera.
.3 Ballad and Song. Romantic. Idyllic. Sentimental. e. g. Modern German.
.4 Popular Ballads. Volkslied. e. g. Irish, Scotch, etc.
.5 Festival. e. g. Sængerbund. Eisteddfod. Competitive.
.6 College, Society Songs, and Choruses.
.7 Negro Minstrelsy. Plantation Songs.
.8 Collected Songs.

.81, Solos; .82, Duets; .83, Trios; .84, Quartets; .85, Other Part Songs; 86, Choruses; .87, Collections for Male Voices; .88, Collections for Female Voices; .89, Other Special Collections.

.9 Vocal Hygiene, Culture, Development, and Methods. Tonic-Sol-Fa.

785 Orchestral Music. For Dramatic Orchestral Music, see 782.

.1 Symphony. Three or more movements; e. g. Adagio, Andante, Allegro, Allegretto, Scherzo, Finale, etc.
.2 Dramatic, Illustrative, Descriptive, Imitative.
e. g. Mendelssohn's Mid-Summer Night's Dream.
.3 Romantic. Idyllic.
.4 Program Music.
.5 Overture. e. g. Beethoven's "Leonores."
.6 Concerto. Orchestral with Solo Instrument.
.7 Chamber Music.
.8 Suite.
.9 Arrangements. Transcriptions. Pot Pourris.

786 Piano and Organ.

.1 Piano. History.
.2 Manufacture.
.3 Instruction.
.4 Piano Music. General Collections. For Piano Concerto, see 785 6.
.41 Sonata. Sonatina. Rondo.
.42 Fantasia. Arabesque.
.43 Nocturne. Meditation. Songs without Words. Romantic. Descriptive.
.44 March and March-form. Polonaise. Polka. Mazourka.
.45 Dance-form. National. Classical. Idealized.
.46 Modern Dance Music. Society. Festive.
.47 Etudes. Artistic. For Etudes for Instruction, see 786.3.
.48 Variations. Transcriptions.
.49 Arrangements. Four Hands and more. e. g. Orchestral Music arranged for Piano.

786.5 Organ. History.
.6 Building.
.7 Instruction.
.8 Organ Music. See 783, Sacred Music.
.81 Sonata. .82 Fugue. .83 Preludes. .84 Interludes. .85 Postludes. .86 Offertories. .87 Voluntaries. Improvisation. .88 Organ and Piano. .89 Organ, Piano, and Orchestra.
.9 Cabinet Organ. Melodeon.

787 Stringed Instruments.

Including with each, History, Manufacture, Instruction, Music, etc. Music for two instruments is put with the one most prominent in the composition.

Bowed.

.1 Violin.
.2 Viola.
.3 Violoncello.
.4 Double Bass. Contra Bass.

Plectral.

.5 Harp.
.6 Guitar. Lute. Mandolin, etc.
.7 Banjo.
.8 Zither.
.9 Other Stringed Instruments. Harpsichord.

788 Wind Instruments.

Including with each, History, Manufacture, Instruction, Music, etc.

Brass.

.1 Trumpet. Slide and Valve.
.2 Trombone.
.3 Cornet.
.4 Horns and other Brass Wind Instruments.
.41 French Horn.
.42 Saxhorn.
.43 Saxophone.
.44 Euphonium.
.45 Ophicleide.
.46 Key Bugle.
.47 Valve Bugle.
.48 Bass. Tuba and Contrabass Tuba. Serpent.
.49 Other.

Wood. Flute Group.

.5 Flute. Waldflute. Piccolo. Fife. Flageolet.

Wood. Reed Group.

.6 Clarinet. Bass Clarinet. Bassethorn.
.7 Oboe. D'amore. Da Caccia. Cor Anglais.
.8 Bassoon. Double Bassoon. Bombardon.
.9 Other Reed Wind Instruments. Bagpipe.

789 Percussion and Mechanical Instruments.

Percussion.

.1 Drum.
.2 Cymbals.
.3 Triangle.
.4 Tambourine. Castanets. Bones.
.5 Bells. Chimes. Carillon.
.6 Other Percussion Instruments. Xylophone.

Mechanical.

.7 Orchestrion.
.8 Music Box.
.9 Other Mechanical Instruments.

790 Amusements.

791 Public Entertainment.

Concert, Panorama, Circus, Menagerie, Summer Resort, Garden, Rink, Museum, Fair, Festival.

792 Theater. Opera. See also 782, Pantomime.

793 In-door Amusements.

Private Theatricals, Tableaux, Charades, Dancing.

794 Games of Skill.

Chess, Checkers, Billiards, Bowling, Bagatelle.

795 Games of Chance.

Cards, Dice, Backgammon, Dominoes.

796 Out-door Sports.

Children's Sports, Athletic Sports, Coasting, Skating, Cycling, Quoits, Archery, Croquet, Lawn Tennis.

797 Boating and Ball.

Rowing, Yachting, Base-ball, Foot-ball, Cricket, Polo.

798 Horsemanship and Racing.

799 Fishing, Hunting, Target Shooting.

Literature.

800 Literature. General Works.

801 Philosophy. Theories. Literary Æsthetics.

802 Compends. Outlines.

803 Dictionaries. Cyclopedias.

804 Essays. Lectures. Addresses.

805 Periodicals. Magazines. Reviews.

806 Societies. Transactions. Reports, etc.

807 Study and Teaching of Literature.

808 Collections. Treatises. Rhetoric.

Divided .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; see also 784.9, Vocal Culture; .6, Letters, Epistolography; .7, Satire, Humor; .8, Collections too general to go with any one language, c. g. a book of Quotations from many languages.
These heads, and the same under 809, include only works about Poetry, etc., regardless of language.

809 History of Literature in general.

Divided like 808. .1, Poetry; .2, Drama; .3, Fiction, etc.

810 American Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on American Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of American Literature.

811 American Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of American Poetry.

.1 **Colonial, 1607–1776.**

.11	Sandys, George.	1577–1644.
.12	Bradstreet, Anne.	1612–1672.
.13	Wigglesworth, Michael.	1631–1705.
.14	Green, Joseph.	1706–1780.
.15	Livingston, William.	1723–1790.
.16	Ferguson, Elizabeth.	1739–1801.

.2 **Post-Revolutionary, 1776–1830.**

.21	Trumbull, John.	1750–1831.
.22	Dwight, Timothy.	1752–1817.
.23	Barlow, Joel.	1755–1812.
.24	Freneau, Philip.	1752–1832.
.25	Alsop, Richard.	1761–1841.
.26	Pierpont, John.	1785–1866.
.27	Dana, Richard Henry.	1787–1879.
.28	Sprague, Charles.	1791–1875.
.29	Minor Poets.	

811.3 **Middle 19th Century, 1830–1861.**

.31	Halleck, Fitz-Greene.	1790–1867.
.32	Poe, Edgar Allan.	1811–1849.
.33	**Bryant, William Cullen.**	1794–1878.
.34	**Longfellow, Henry Wadsworth.**	1807–1882.
.35	Read, Thomas Buchanan.	1822–1872.
.36	**Whittier, John Greenleaf.**	1807–
.37	**Lowell, James Russell.**	1819–
.38	Whitman, Walt.	1819–
.39		

.4 **Later 19th Century, 1861–**

.41	Stoddard, Richard Henry.	1825–
.42	Hayne, Paul Hamilton.	1831–
.43	Stedman, Edmund Clarence.	1833–
.44	Winter, William.	1836–
.45	Miller, Cincinnatus Hiner, (Joaquin.)	1841–
.46		
.47		
.48		
.49		

812 American Drama.

.1 **Colonial, 1607–1776.**

.11	Warren, Mercy.	1728–1814.
.12	Godfrey, Thomas.	1736–1763.
.13		

.2 **Post-Revolutionary, 1776–1830.**

.21	Tyler, Royall.	1757–1826.
.22	Dunlap, William.	1766–1839.
.23	Hillhouse, James Abraham.	1789–1841.
.24	Ingersoll, Charles Jared.	1782–1862.
.25		

.3 **Middle 19th Century, 1830–1861.**

.31	Ritchie, Anna Cora Mowatt.	1818–1870.
.32	Matthews, Cornelius.	1817–
.33	Boker, George Henry.	1823–
.34		

.4 **Later 19th Century, 1861–**

.41

813 American Fiction.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Brackenridge, Hugh Henry.	1748–1816.
.22	Rowson, Susanna.	1762–1824.
.23	Brown, Charles Brockden.	1771–1810.
.24	**Cooper, James Fenimore.**	1789–1851.
.25	Ware, William.	1797–1852.
.26	Neal, John.	1793–
.27		
.28		
.29		

813.3 **Middle 19th Century, 1830–1861.**

.31	Thompson, Daniel Pierce.	1795–1868.
.32	Kennedy, John Pendleton.	1795–1870.
.33	**Hawthorne, Nathaniel.**	1804–1864.
.34	Judd, Sylvester.	1813–1853.
.35	Simms, William Gilmore.	1806–1870.
.36	Melville, Herman.	1819–
.37	Stowe, Harriet Beecher.	1812–
.38		
.39		

.4 **Later 19th Century, 1861–**

.41	Alcott, Louisa May.	1833–
.42	Eggleston, Edward.	1837–
.43	Howells, William Dean.	1837–
.44	Aldrich, Thomas Bailey.	1836–
.45	Harte, Francis Bret.	1839–
.46	James, Henry.	1843–
.47	Hawthorne, Julian.	1846–
.48	Burnett, Francis Hodgson.	1849–
.49	Minor Novelists.	

814 American Essays.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Rush, Benjamin.	1745–1813.
.22	Webster, Noah.	1758–1843.
.23	Channing, William Ellery.	1780–1842.

.3 **Middle 19th Century, 1830–1861.**

.31	Ossoli, Margaret Fuller.	1810–1850.
.32	Giles, Henry.	1809–1882.
.33	Tuckerman, Henry Theodore.	1813–1871.
.34	**Holland, Josiah Gilbert.**	1819–1882.
.35	Whipple, Edwin Percy.	1819–
.36	Emerson, Ralph Waldo	
.37		

.4 **Later 19th Century, 1861–**

.41	Burroughs, John.	
.42		
.43		
.44		

815 American Oratory.

.1 **Colonial, 1607–1776.**

.11

.12

.2 **Post-Revolutionary, 1776–1830.**

.21	Hamilton, Alexander.	1757–1804.
.22	Ames, Fisher.	1758–1808.
.23	Wirt, William.	1772–1834.
.24	Randolph, John.	1773–1833.
.25	Clay, Henry.	1777–1852.
.26	Calhoun, John Caldwell.	1782–1850.
.27	Webster, Daniel.	1782–1852.
.28		
.29		

815.3 **Middle 19th Century, 1830–1861.**

.31	Everett, Edward.	1794–1865.
.32	Choate, Rufus.	1799–1859.
.33	Sumner, Charles.	1811–1874.
.34	Phillips, Wendell.	1811–1884.
.35	Chapin, Edwin Hubbell.	1814–1880.
.36	Beecher, Henry Ward.	1813–

.4 **Later 19th Century, 1861–**

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.42

.43

816 American Letters. Subdivided by periods, like 811.

817 American Satire and Humor.

.1 **Colonial, 1607–1776.**

.11	Ward, Nathaniel.	1578–1653.
.12	Alsop, George.	1638–
.13	Byles, Mather.	1706–1788.
.14	Hopkinson, Francis.	1738–1791.
.15	Peters, Samuel Andrew.	1735–1826.

.2 **Post-Revolutionary, 1776–1830.**

.21	Story, Isaac.	1774–1803.
.22	Fessenden, Thomas Green.	1771–1837.
.23	Paulding, James Kirke.	1779–1860.
.24	**Irving, Washington.**	1783–1859.
.25	Verplanck, Gulian Crommelin.	1786–1870.
.26		
.27		

.3 **Middle 19th Century, 1830–1861.**

.31	Neal, Joseph Clay.	1807–1847.
.32	**Holmes, Oliver Wendell.**	1809–
.33	Shelton, Frederick William.	1814–
.34	Shillaber, B. P. (Mrs. Partington.)	1814–
.35	Saxe, John Godfrey.	1816–
.36	Cozzens, Frederick Swartout.	1818–1869.
.37	Browne, C. F., (Artemas Ward.)	1834–1867.
.38		
.39	Minor Satirists and Humorists.	

.4 **Later 19th Century, 1861–**

.41	Warner, Charles Dudley.	1829–
.42	Locke, David Ross, (Nasby.)	1833–
.43	Burdette, Robert J.	1831–
.44	Clemens, S. L., (Mark Twain.)	1835–
.45	Carleton, William.	1845–
.46		
.47		

818 American Miscellany.

.3 **Middle 19th Century, 1830–1861.**

.31	Thoreau, Henry David.	1817–1862.
.32	Mitchell, Donald Grant.	1822–

820 English Literature.

820.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on English Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

821 English Poetry.

.02, Dramatic; 03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of English Poetry.

.1 Early English, 1066–1400.

.11	Layamon,	1150–1207.
.12	Ormin,	1187–1237.
.13	Robert of Gloucester,	1245–1307.
.14	Minot, Lawrence	1313–1352.
.15	Langland, William	1327–1368.
.16	Barbour, John	1320–1392.
.17	**Chaucer, Geoffrey**	1328–1400.
.18	Gower, John	1325–1408.
.19	Minor Writers.	

.2 Pre-Elizabethan, 1400–1558.

.21	Lydgate, John	1369–1461.
.22	Skelton, John	1460–1529.
.23	Dunbar, William	1460–1530.
.24	Douglas, Gavin	1474–1522.
.25	Hawes, Stephen	1483–1509.
.26	Lyndsay, Sir David	1490–1556.
.27	Wyatt, Sir Thomas	1503–1542.
.28	Surrey, Henry Howard, earl of	1517–1547.
.29	Minor Writers.	

.3 Elizabethan, 1558–1625.

.31	**Spenser, Edmund**	1553–1599.
.32	Sidney, Sir Philip	1554–1586.
.33	Daniel, Samuel	1562–1619.
.34	Drayton, Michael	1563–1627.
.35	Davies, John	1570–1626.
.36	Drummond, William	1585–1649.
.37	Fletcher, Giles and Phineas	1585–1650.
.38	Herbert, George	1593–1633.
.39	Minor Writers.	

.4 Post-Elizabethan, 1625–1702.

.41	Suckling, Sir John	1609–1641.
.42	Crashaw, Richard	1616–1650.
.43	Herrick, Robert	1591–1674.
.44	Waller, Edmund	1605–1687.
.45	Lovelace, Richard	1618–1658.
.46	Cowley, Abraham	1618–1667.
.47	**Milton, John**	1608–1674.
.48	**Dryden, John**	1631–1700.
.49	Minor Writers.	

821.5 Queen Anne, Early 18th Century, 1702–1745.

.51	Prior, Matthew	1664–1721.
.52	Parnell, Thomas	1679–1717.
.53	**Pope, Alexander**	1688–1744.
.54	Ramsay, Allan	1685–1758.
.55	Young, Edward	1684–1765.
.56	Thomson, James	1700–1748.
.57	Collins, William	1720–1756.
.58	Shenstone, William	1714–1764.
.59	Minor Writers.	

.6 Later 18th Century, Pre-Revolutionary, 1745–1800.

.61	Gray, Thomas	1716–1771.
.62	Akenside, Mark	1721–1769.
.63	Chatterton, Thomas	1752–1770.
.64	Goldsmith, Oliver	1728–1774.
.65	Cowper, William	1731–1800.
.66	Macpherson, James	1738–1796.
.67	**Burns, Robert**	1759–1796.
.68	White, Henry Kirke	1785–1806.
.69	Minor Writers.	

.7 Early 19th Century, Post-Revolutionary, 1800–1837.

.71	Wordsworth, William	1770–1850.
.72	Coleridge, Samuel Taylor	1772–1834.
.73	Southey, Robert	1774–1843.
.74	Scott, Sir Walter	1771–1832.
.75	Moore, Thomas	1779–1852.
.76	Byron, Geo. Gordon Noel	1788–1824.
.77	Shelley, Percy Bysshe	1792–1822.
.78	Keats, John	1796–1821.
.79	Minor Writers.	

.8 Victorian Period, 1837.

.81	Tennyson, Alfred	1809–
.82	Browning, Elizabeth Barrett	1809–1861.
.83	Browning, Robert	1812–
.84	Rossetti, Dante Gabriel	1828–
.85	Morris, William	1834–
.86	Swinburne, Algernon Charles	1843–
.87		
.88		
.89	Minor Writers.	

822 English Drama.

.1 **Early English, 1066–1400.**

.11 Chester Plays.
.12 Coventry Plays.
.13 Townley Plays.

.2 **Pre-Elizabethan, 1400–1558.**

.21 Heywood, John 1506–1565.
.22 Udall, Nicholas 1505–1564.
.23 Bale, John 1495–1563.

.3 **Elizabethan, 1558–1625.**

.31 Greene, Robert 1561–1592.
.32 Marlowe, Christopher 1564–1593.
.33 **Shakspere, William** 1564–1615.
.34 **Jonson, Ben** 1574–1637.
.35 **Beaumont, Francis and Fletcher, John** 1576–1625.
.36 Webster, John 1582–1652.
.37 Massinger, Philip 1584–1640.
.38 Ford, John 1586–1639.
.39 Minor Writers.

.4 **Post-Elizabethan, 1625–1702.**

.41 Davenant, Sir William 1605–1668.
.42 Etherege, Sir George 1637–1688.
.43 Crowne, John 1644–1699.
.44 Wycherly, William 1640–1715.
.45 Otway, Thomas 1651–1684.
.46 **Congreve, William** 1670–1729.
.47 Vanbrugh, Sir John 1666–1726.
.48 Farquhar, George 1678–1707.
.49 Minor Writers.

.5 **Queen Anne,** Early 18th Century, **1702–1745.**

.51 Dennis, John 1657–1734.
.52 Southerne, Thomas 1660–1746.
.53 Centlivre, Mrs. Susannah (Freeman) 1668–1723.
.54 Cibber, Colley 1671–1757.
.55 Rowe, Nicholas 1674–1718.
.56 Gay, John 1688–173[illegible].
.57 Lillo, George 1693–1739.
.58
.59 Minor Writers.

.6 **Later 18th Century, 1745–1800.**

.61 Garrick, David 1716–1779.
.62 Foote, Samuel 1721–1777.
.63 Colman, George, the elder 1733–1794.
.64 Home, John 1724–1808.
.65 Cumberland, Richard 1732–1811.
.66 **Sheridan, Richard Brinsley** 1751–1816.
.67 Inchbald, Mrs. Elizabeth (Simpson) 1756–1821.
.68
.69 Minor Writers.

.7 **Early 19th Century, 1800–1837.**

.71 Baillie, Joanna 1762–1851.
.72 Knowles, James Sheridan 1784–1862.

.8 **Victorian Period, 1837–**

823 English Fiction.

.1 **Early English, 1066–1400.**

.2 **Pre-Elizabethan,** (More's Utopia,) **1400–1558.**

.3 **Elizabethan,** (Lyly's Euphues,) **1558–1625.**

.4 **Post-Elizabethan, 1625–1702.**

.41 Harrington, James 1611–1677.
.42 **Bunyan, John** 1628–1688.
.43 Mackenzie, George 1636–1691.
.44 Behn, Aphra 1642–1689.

.5 **Queen Anne, 1702–1745.**

.51 DeFoe, Daniel 1662–1731.
.52 Fielding, Henry 1707–1754.

.6 **Later 18th Century, 1745–1800.**

.61 Richardson, Samuel 1689–1761.
.62 Sterne, Laurence 1713–1768.
.63 Smollett, Tobias George 1721–1771.
.64 **Goldsmith, Oliver** 1728–1774.
.65 Mackenzie, Henry 1745–1834.
.66 Arblay, Frances (Burney), madame d' 1752–1840.
.67
.68
.69 Minor Writers.

.7 **Early 19th Century, 1800–1837.**

.71 Lewis, Matthew Gregory 1775–1818.
.72 Edgeworth, Maria 1765–1849.
.73 **Scott, Sir Walter** 1771–1832.
.74 Austen, Jane 1775–1817.
.75 Porter, Jane 1776–1850.
.76 Peacock, Thomas Love 1785–1867.
.77 Galt, John 1779–1839.
.78 Marryat, Frederick 1786–1857.
.79 Minor Writers.

.8 **Victorian Period, 1837–**

.81 Brontë, Charlotte 1816–1855.
.82 **Thackeray, William Makepeace** 1811–1863.
.83 **Dickens, Charles** 1812–1870.
.84 Lytton, Edw. Geo. Bulwer, 1st baron 1804–1873.
.85 Kingsley, Charles 1819–1875.
.86 Beaconsfield, Benjamin Disraeli, 1st earl of 1805–1881
.87 Trollope, Anthony 1815–1882.
.88 **Eliot, George** 1820–1880.
89 Minor Writers.

824 English Essays.

.3 Elizabethan, (Bacon,) **1558–1625.**

.4 Post-Elizabethan, (Locke), **1625–1702.**

.5 Queen Anne, 1702–1745.

.51 Shaftsbury, Anthony Ashley Cooper, 3d earl of
.52 **Addison, Joseph** 1672–1719.
.53 Steele, Sir Richard 1672–1729.
.54 Budgell, Eustace 1685–1736.
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.6 Later 18th Century, 1745–1800.

.61 Moore, Edward 1712–1757.
.62 Kames, Henry Home, lord 1696–1782.
.63 **Johnson, Samuel** 1709–1784.
.64 Hume, David 1711–1776.
.65 Hawkesworth, John 1715–1773.
.66 Goldsmith, Oliver 1728–1774.
.67 Gibbon, Edward 1737–1794.
.68
.69 Minor Writers.

.7 Early 19th Century.

.71 Mackintosh, Sir James 1766–1832.
.72 Smith, Sidney 1772–1845.
.73 Jeffrey, Francis, lord 1773–1850.
.74 Brougham, Henry, 1st baron 1779–1868.
.75 **Lamb, Charles** 1775–1834.
.76 Hazlitt, William 1778–1813.
.77 Hunt, Leigh 1784–1859.
.78
.79 Minor Writers.

.8 Victorian Period.

.81 De Quincey, Thomas 1785–1859.
.82 Carlyle, Thomas 1795–1881.
.83 Macaulay, Thomas Babington, 1st baron 1800–1859.
.84 Helps, Sir Arthur 1817–
.85 Arnold, Matthew 1822–
.86 Ruskin, John 1819–
.87
.88
.89 Minor Writers.

825 English Oratory.

.6 Later 18th Century, 1745–1800.

.61 Chatham, William Pitt, 1st earl of 1708–1778.
.62 **Burke, Edmund** 1729–1797.
.63 Fox, Charles James 1750–1806.
.64 **Sheridan, Richard Brinsley** 1751–1816.
.65 Grattan, Henry 1750–1820.

826 English Letters.

.2 Pre-Elizabethan, (Paston Letters,) **1400–1558.**

.5 Queen Anne, 1702–1745.

.51 Montagu, Lady Mary (Pierrepont) Wortley 1690–1762.
.52 Chesterfield, Philip Dormer Stanhope, 4th earl of 1694–1773.
.53

.6 Later 18th Century, 1745–1800.

.61 Orford, Horace Walpole, 4th earl of 1717–1785.
.62 Montagu, Mrs. Elizabeth (Robinson) 1720–1800.

827 English Satire and Humor.

.2 Pre-Elizabethan, 1400–1558.

.21 Barclay, Alexander 1488–1551.

.3 Elizabethan, 1558–1625.

.31 Gascoigne, George 1537–1577.
.32 Harrington, Sir John 1559–1612.
.33 Hall, Joseph 1574–1627.
.34 Marston, John 1575–1634.
.35 Donne, John 1573–1631.
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.4 Post-Elizabethan, 1588–1667.

.41 Wither, George 1588–1667.
.42 **Butler, Samuel** 1612–1680
.43 Marvell, Andrew 1620–1678.
.44 D'Urfey, Thomas 1625–1723.
.45 Oldham, John 1653–1683.
.46 Brown, Thomas 1663–1704.
.47 King, William 1663–1712.
.48 Garth, Sir Samuel 1665–1719.
.49 Minor Writers.

827.5 **Queen Anne, 1702–1745.**

.51 Ward, Edward 1667–1731.
.52 Swift, Jonathan 1667–1745.
.53 Mandeville, Bernard de 1670–1733.
.54 Arbuthnot, John 1675–1735.
.55 Pope, Alexander 1688–1744.
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.6 **Later 18th Century, 1745–1800.**

.61 Churchill, Charles 1733–1765.
.62 Amory, Thomas 1691–1788.
.63 Whitehead, Paul 1710–1774.
.64 Junius 1679–1772.
.65 Wolcott, John 1738–1819.
(pseud. Peter Pindar.)
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.7 **Early 19th Century, 1800–1837.**

.71 Gifford, William 1757–1826.
.72 Hood, Thomas 1798–1845.
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.8 **Victorian.**

.81 Jerrold, Douglas 1803–1857.
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828 English Miscellany.

Divided into the same periods as 821 Poetry.

829 Anglo-Saxon Literature.

.1 **Poetry.**
.2 **Cædmon.**
.3 **Beowulf.**
.4 **Cynewulf.**
.5 **Homilies and Religious.**
.6 **Ælfric.**
.7 **Alfred the Great.**
.8 **Miscellaneous.**
.9 **Historical and Biographical.**

830 German Literature.

830.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on German Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

831 German Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of German Poetry.

.1 **Before the Crusades, –1150.**

.11 "Hildebrandslied."
.12 Otfried.
.13 "Ludwigslied."
.14 "Muspilli."

.2 **Middle High, 1150–1300.**

.21 "Nibelungenlied."
.22 "Gudrun," and minor folk epics.
.23 Heinrich von Veldeke –1200.
.24 Wolfram von Eschenbach.
.25 Gottfried von Strassburg.
.26 Hartmann von Aue 1170–1220.
.27 Walther von der Vogelweide 1170–1230.
.28 Ulrich von Lichtenstein 1199–1276.
.29 Minor Writers.

.3 **Period of Decline, 1300–1517.**

31 Horneck, Ottokar von.
32 Hadamar von Laber.
33 Hermann von Sachsenheim –1458.
.34 Büheler, Hans. "Die sieben weisen Meister," 1414–
.35 Kaspar von der Röhn. "Das Heldenbuch."
.36 "Theuerdank."
.37 "Die Haimonskinder."
.38 Mastersingers.
.39 Minor Writers.

.4 **Reformation. New High, 1517–1625.**

.41 Agricola, Martin 1486–1556.
42 Waldis, Burkard 1490–1558.
.43 Alberus, Erasmus 1500–1553.
.44 Sachs, Hans 1494–1576.
.45 Ringwaldt, Bartholomäus 1530–1599.
.46 Rollenhagen, Georg 1542–1609.
.47 Andreä, Johann Valentin 1586–1654.

.5 **Period of Imitation, 1625–1750.**

[The Silesian Schools.]

.51 Opitz von Boberfeld, Martin 1597–1639.
.52 Flemming, Paul 1609–1640.
.53 Logau, Friedrich von 1604–1655.
.54 Gerhardt, Paul 1607–1676.
.55 Hofmannswaldau, Christian Hofmann von 1618–1679.
.56 Zesen, Philipp von 1619–1689.
.57 Brockes, Barthold Heinrich 1680–1747.
.58 Bodmer, Johann Jakob 1698–1783.
.59 Minor Writers.

831.6 Classic Period, 1750–1830.

[For Göthe and Schiller, see 832.6.]

.61	Gellert, Christian Fürchtegott	1715–1769.
.62	**Klopstock, Friedrich Gottlob**	1724–1803.
.63	Bürger, Gottfried August	1748–1794.
.64	**Herder, Johann Gottfried von**	1744–1803.
65	Voss, Johann Heinrich	1751–1826.
66	Körner, Karl Theodor	1791–1813.
67	Hölderlin, Johann Christian Friedrich	1770–1843.
68	Platen Hallermünde, August, graf von	1796–1835.
.69	Minor Writers.	

.7 Post-Classic Period, 1830–1856.

.71	Arndt, Ernst Moritz	1769–1860.
.72	Eichendorff, Joseph, freiherr von	1788–1857.
.73	Uhland, Johann Ludwig	1787–1862.
.74	Rückert, Friedrich	1789–1866.
.75	**Heine, Heinrich**	1799–1856.
.76	Niembsch von Strehlenau, Nikolaus	1802–1850.
.77	Auersperg, Anton Alexander, graf von	[Anastasius Grün.] 1806–1881.
.78	Freiligrath, Ferdinand	1810–1876.
.79	Minor Writers.	

.8 Later 19th Century, 1856–

.81	Schefer, Leopold	1784–1862.
.82	Kinkel, Johann Gottfried	1815–1882.
.83	Geibel, Emanuel	1815–1884.
.84	Bodenstedt, Friedrich Martin	1819–
.85		
.86		
.87		
.88		
.89	Minor Writers.	

832 German Drama.

.5 Period of Imitation, 1625–1750.

.51	Gryphius, Andreas	1616–1664.
.52	Lohenstein, Daniel Caspar	1635–1683.
.53	Weise, Christian	1642–1708.
.54	Gottsched, Johann Christoph	1700–1776.
.55	Gottsched, Luise Adelgunde Victoric (Culmus)	1713–1762.

.6 Classic Period, 1750–1830.

.61	**Lessing, Gottlob Ephraim**	1729–1781.
.62	**Göthe, Johann Wolfgang von**	1749–1832.
.63	**Schiller, Johann Christoph Friedrich**	1759–1805.
.64	Klinger, Friedrich Maximilian	1753–1831.
.65	Iffland, August Wilhelm	1759–1814.
.66	Kotzebue, August Friedrich Ferdinand von	1761–1819.
.67	Werner, Friedrich Ludwig Zacharias	1768–1823.
.68	Kleist, Heinrich von	1776–1811.
.69	Minor Writers.	

832.7 Post-Classic Period, 1830–1856.

.71	Grabbe, Christian Dietrich	1801–1836.
.72	Griepenkerl, Wolfgang Robert	1810–1836.
.73	Grillparzer, Franz	1791–1872.
.74	Birch-Pfeiffer, Charlotte	1800–1868.
.75	Münch-Bellinghausen, Eligius Franz Joseph.	[Friedrich Halm.] 1806–1866.
.76	Laube, Heinrich	1806–
.77	Hebbel, Friedrich	1815–1863.
.78	Gutzkow, Karl Ferdinand	1811–1878.
.79	Minor Writers.	

.8 Later 19th Century, 1856–

.81	Benedix, Julius Roderich	1811–1873.
.82	Mosenthal, Salomon Hermann	1821–1877.
.83	Brachvogel, Albert Emil	1824–1878.
.84	Gottschall, Karl Rudolph	1823–
.85	Lindau, Paul	1839–
.89	Minor Writers.	

833 German Fiction.

.5 Period of Imitation, 1625–1750.

.51	Buchholtz, Andrew Heinrich	1607-1671.
.52	Grimmelshausen, Christoffel von	1625–1676.
.53	Anselm, Heinrich	1653–1697.
.54	"Robinsonaden."	
.55	"Der Neue Amadis."	

.6 Classic Period, 1750–1830.

.61	Wieland, Christoph Martin	1733–1830.
.62	Richter, Jean Paul Friedrich	1763–1825.
.63	Hardenberg, Friedrich von [Novalis]	1772–1801.
.64	Hoffmann, Ernst Theodor Wilhelm	1776–1822.
.65	La Motte Fouqué, Friedrich H; C;	1777–1843.
.66	Arnim, Ludwig Achim von	1781–1831.
.67	Hauff, Wilhelm	1802–1827.
.68	Chamisso, Adelbert von	1781–1838.
.69	Minor Writers.	

.7 Post-Classic Period, 1830-1856.

.71	Zschokke, Johann Heinrich Daniel	1771–1848.
.72	Brentano, Clemens	1778–1842.
.73	Tieck, Ludwig	1773–1853.
.74	Postl, Karl [Charles Sealsfield]	1793–1864.
.75	Häring, Wilhelm [Wilibald Alexis]	1798–1871.
.76	Hahn-Hahn, Ida, gräfin von	1805–1880.
.77	Gerstäcker, Friedrich	1816–1872.
.78	Hackländer, Friedrich Wilhelm	1816–1877.
.79	Minor Writers.	

.8 Later 19th Century, 1856–

.81	Auerbach, Berthold	1815–1882.
.82	Freytag, Gustav	1816–
.83	Scheffel, Joseph Viktor von	1826–
.84	Spielhagen, Friedrich	1829–
.85	Heyse, Paul Johann Ludwig	1830–
.86	Ebers, Georg	1837–
.89	Minor Writers.	

834 German Essays. Subdivided by periods like 831.

835 German Oratory. " "

836 German Letters. " "

837 German Satire and Humor.

.2 **Middle High. Minnesingers, 1150–1300.**

.21 [Stricker, Der.] "Der Pfaffe Amis" und "Beispiele."

.22 "Salomon und Morolf."

.3 **Period of Decline, 1300–1517.**

.31 "Reineke Vos."

.32 Brant, Sebastian 1458–1521.

.4 **Reformation. New High, 1517–1625.**

.41 Murner, Thomas "Tyll Eulenspiegel." 1475–1537.

.42 Fischart, Johann 1550–1589.

.5 **Period of Imitation, 1625–1750.**

.51 Moscherosch, Johann Michael 1601–1669.

.52 Rachel, Joachim 1618–1669.

.53 Wernicke, Christian 1660–1720.

.54 Liscow, Christian Ludwig 1701–1760.

.6 **Classic Period, 1750–1830.**

.61 Rabener, Gottlieb Wilhelm 1714–1771.

.62 Blumauer, Aloys 1755–1798.

838 German Miscellany.

839 Minor Teutonic Literatures.

Subdivided by form, Poetry, Drama, etc., like 830.

.1 Low German.

.2 **Frisian. Old Saxon.**

.3 **Dutch Literature. Flemish.**

.31 Dutch Poetry.

.311 **Middle Ages.** 1200–1450.

[.1, Jacob van Maerlant 1235–1291; (.2, Heinrije van Veldeke 1200, see 831.23;) .3, Jan I. van Brabant 1250–1294; .4, Melis Stoke 1310; .5, Dirc Potter 1428.]

.312 **Chambers of Rhetoric.** 1450–1600.

[.1, Antonius de Rovere 1482; .2, Anna Bijns 1500; .3, Matthijs de Castelein 1488–1548; .4, Cornelis Everaert 1550; .5, Jan Baptist Houwaert 1533–1599; .6, Dirk Volkerszoon Coornhert 1522–1590; .7, Philipp Marnix 1538–1598; .8, Cornelis van Ghistele 1600; .9, Minor Writers.]

.313 **Period of the Republic.** 1600–1700.

[.1, **Jacob Cats,** 1577–1660; .2, **Joost van der Vondel** 1587–1679; .3, Marie Tesselschade Visscher 1594–1649; .4, **Constantijn Huygens** 1596–1687; .5, Reyer Anslo 1626–1669; .6, Geraert Brandt 1626–1685; .7, Jan Antoniszoon van der Goes (Antonides) 1647–1684; .9, Minor Writers.]

.314 **Poetical Societies.** 1700–1800.

[.1, Lucas Rotgans 1654–1710; .2, Hubert Corneliszoon Poot 1689–1733; .3, Arnold Hoogvliet 1687–1763; .4, Sybrand Feitama 1694–1758; .5, Willem van Haren 1710–1768; .6, Jacob Bellamy 1757–1786; .7, Hieronymus van Alphen 1746–1803; .9, Minor Writers.]

.315 **Modern Period.** 1800–

[.1, Willem Bilderdijk 1756–1831; .2, Jan Frederik Helmers 1767–1813; .3, Cornelis Loots 1765–1834; .4, Hendrik Tollens 1780–1856; .5, Isaac da Costa 1798–1860; .6, Jan Jacob Lodewijk ten Kate 1819–; .9, Minor Writers.]

839.32 Dutch Drama.

.323 **Period of the Republic.** 1600–1700.

[.1, **Gerbrand Adriaenszoon Bredero** 1585–1618; .2, **Corneliszoon Hooft** 1581–1647; .3, Samuel Costa 1580–1650; .4, Jan Vos 1620–1667; .5, Guillelmus Ogier 1619–1689; .6, Joachim Oudaan 1628–1692; .9, Minor Writers.]

.324 **Poetical Societies.** 1700–1800.

[.1, Pieter Langendijk 1683–1756; .2, Andries Pels; .3, Balthasar Huydecoper 1695–1778; .4, Onno Zwier van Haren 1713–1779; .5, Jan Nomsz 1738–1803; .9, Minor Writers.]

.325 **Modern Period.** 1800–

[.1, Samuel Iperuszoon Wiselius 1769–1845; .2, Helvetius van den Bergh 1795–1865; .3, Hendrik Jan Schimmel 1824–.]

839.33 Dutch Fiction.

.334 **Poetical Societies.** 1700–1800.

[.1, Elisabeth Bekker Wolff 1738–1804; .2, Agatha Deken 1741–1804; .3, Rhijnvis Feith 1753–1824.]

.335 **Modern Period.** 1800–

[.1, Adriaan Loosjes 1761–1818; .2, Jacob Vosmaer 1783–1834; .3, Jan Frederik Oltmans 1806–1854; .4, Jacob van Lennep 1802–1868; .5, **Hendrik Conscience** 1812–; .6, Anna Louisa Geertruida Bosbuom-Tou saint 1812–.]

839.34 Dutch Essays.

.344 **Poetical Societies.** 1700–1800.

[Justus Van Effen 1684–1735.]

.345 **Modern Period.** 1800–

[.1, Johannes Henricus van der Palm 1763–1840; .2, Reinier Cornelis Bakhuizen van den Brink 1810–1865; .3, Everhardus Johannes Potgieter 1808–1875; .4, Nicolas Beets 1814–; .5, Coenraad Busken Huet 1826–.]

839.37 Dutch Satire and Humor.

.371 **Middle Ages.** 1200–1450.

[**Reinaert** (van den vos Reinaerde) see 837.31.]

.374 **Poetical Societies.** 1700–1800.

[Arend Simonszoon Fokke 1755–1812.]

839.38 Dutch Miscellany.

The subdivisions of .8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.381 **Middle Ages.** 1200–1450.

[Jan van Boendale (Jan de Clerc), *Chronicles*, 1280–1365.]

.384 **Poetical Societies.** 1700–1800.

[Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–1773.]

.4 **Platt Deutsch.**

.5 **Scandinavian.**

.6 **Old Norse. Icelandic. Faroese.**

839.7 **Swedish Literature.**

.71 Swedish Poetry.

.711 **Middle Ages.** 1200–1520.

[.1, Nicolaus Hermanni 1391; .2, Bishop Tomas 1443; .3, Ericus Olai 1486; .4, Ballads (Folkvisor).]

.712 **Reformation.** 1520–1640.

[.1, Olaus Petri 1497–1552; .2, Laurentius Petri 1499–1573.]

.713 **Age of Stjernhjelm.** 1640–1740.

[.1, **Georg Stjernhjelm** 1598–1672; .2, Lars Johansson (Lucidor) 1640–1674; .3, Haquin Spegel 1645–1714; .4, Israel Holmström 1660–1708; .5, Gunno Eurelius Dahlstjerna 1661–1709; .6, Johan Runius 1679–1713; .7, Jacob Frese 1691–1729; .8, Samuel von Triewald 1688–1743; .9, Minor Writers.]

.714 **Age of Dalin.** 1740–1780.

[.1, Olof Carelius 1758; .2, **Olof von Dalin** 1708–1763; .3, Hedvig Charlotta Nordenflycht 1718–1763; .4, Anders Odel 1718–1774; .5, Gustaf Filip Creutz 1729–1785; .6, Gustaf Fredrik Gyllenborg 1731–1808; .7, Olof Bergklint 1733–1805; .9, Minor Writers.]

.715 **Age of Gustavus.** 1780–1800.

[.1, **Karl Mikael Bellman** 1740–1795; .2, Johan Henrik Kellgren 1751–1795; .3, Bengt Lidner 1757–1793; .4, Johan Gabriel Oxenstjerna 1750–1818; .5, Tomas Thorild 1759–1808; .6, Anna Maria Lenngren 1754–1817; .7, Karl Gustaf af Leopold 1756–1829; .8, Frans Mikael Franzén 1772–1847; .9, Minor Writers.]

.716 **Modern Period.** 1800–

[.1, Per Henrik Ling 1776–1839; .2, Johan Olof Wallin 1779–1839; .3, **Esaias Tegnér** 1782–1846; .4, Erik Johan Stagnelius 1793–1823; .5, Per Daniel Amadeus Atterbom 1790–1855; .6, Karl Jonas Ludwig Almqvist 1793–1866; .7, Johan Ludvig Runeberg 1804–1877; .8, Karl Vilhelm Böttiger 1807–1879; .9, Minor Writers.]

839.72 Swedish Drama.

.722 **Reformation.** 1520–1640.

[.1, Johan Messenius 1579–1637; .2, Magnus Olai Asteropherus –1647; .3, Andreas Johannis Prytz 1590–1655.]

.723 **Age of Stjernhjelm.** 1640–1740.

[Isak Börk –1701.]

.725 **Age of Gustavus.** 1780–1800.

[.1, Karl Israel Hallman 1732–1800; .2, Gustaf III. (King) 1746–1792; .3, Olof Kexél 1748–1796; .4, Karl Envallsson 1756–1806.]

.726 **Modern Period.** 1800–

[.1, Johan Börjesson 1790–1866; .2, Bernhard von Beskow 1796–1868; .3, August Teodor Blanche 1811–1868; .4, Johan Kristofer Jolin 1818–; .5, Frans Hedberg 1828–; .6, Per Johan Edvard Bäckström 1841–.]

839.73 Swedish Fiction.

.734 **Age of Dalin.** 1740–1780.

[.1, Jakob Henrik Mörk 1714–1763; .2, Jakob Vallenberg 1746–1778.]

.736 **Modern Period.** 1800–

[.1, Sofia Margareta von Knorring 1797–1848; .2, Magnus Jakob Crusenstolpe 1795–1865; .3, **Fredrika Bremer** 1801–1865; .4, Karl Anton Wetterberg (Onkel Adam) 1804–; .5, Emilie Carlén 1807–; .6, Zakris Topelius 1818–; .7, Viktor Rydberg 1829–; .9, Minor Writers.]

839.74 Swedish Essays.

.746 **Modern Period.** 1800–

[.1, Benjamin Karl Henrik Höijer 1767–1812; .2, Lorenzo Hammarsköld 1785–1827; .3, Bernhard Elis Malmström 1816–1865; .4, Karl Julius Lénström 1811–; .5, Gustaf Håkan Jordan Ljunggren 1825–; .6, Karl Rupert Nyblom 1832–.]

839.77 Satire and Humor.

.776 **Modern Period.** 1800–

[.1, Johan Anders Wadmar 1777–1837; .2, Erik Sjöberg (Vitalis) 1794–1828; .3, Kristian Erik Fahlcrantz 1790–1866; .4, Vilhelm August Detlof von Braun 1813–1860; .5, Gunnar Wennerberg 1817–]

839.78 Swedish Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.781 **Middle Ages.** 1200–1520.

[Canon Mattias, *Bible Translation*, –1350; Peder Månsson, *Encyclopedia*, –1534.]

.782 **Reformation.** 1520–1640.

[.1, Peder Andersson Svart, *History*, –1562; .2, Erik Göransson Tegel, *History*, 1580–1636; .3, Ægidius Girs, *History*, 1580–1639; .4, Gustavus Adolphus (King), *History*, 1594–1632.]

.783 **Age of Stjernhjelm.** 1640–1740.

[.1, Olof Rudbeck, *Medicine*, 1630–1702; .2, Urban Hjärne 1641–1724; .3, Johan Peringskjöld, *History*, 1654–1720; .4, Anders Rydelius, *Philosophy*, 1671–1738; .5, Anders Celsius, *Astronomy*, 1701–1744; .6, Emanuel Svedenborg, *Theology*, 1688–1772]

.784 **Age of Dalin.** 1740–1780.

[.1, Karl Gustaf Tessin, *History*, 1695–1770; .2, Karl von Linné, *Botany*, 1707–1778; .3, Johan Ihre, *Philology*, 1707–1780; .4, Sven Lagerbring, *History*, 1707–1787; .5, Anders Johan von Höpken, *History*, 1712–1789; .6, Olof Celsius, *History*, 1716–1794; .7, Anders af Botin, *History*, 1724–1790; .8, Torbern Olof Bergman, *Chemistry*, 1735–1784; Karl Vilhelm Scheele, *Chemistry*, 1742–1786.]

.786 **Modern Period.** 1800–

[.1, Erik Gustaf Geiger, *History*, 1783–1847; .2, Anders Magnus Strinnholm, *History*, 1786–1862; .3, Anders Fryxell, *History*, 1795–1881; .4, Frederik Ferdinand Carlson, *History*, 1811–.]

839.8 Danish and Norwegian Literature.

.81 Danish and Norwegian Poetry.

.811 **Middle Ages.** 1100–1500.

[.1, Anders Sunesen; .2, Ballads (Kjæmpeviser).]

.812 **Reformation.** 1500–1560.

[Hans Tavsen 1494–1561.]

.813 **Learned Period.** 1560–1700.

[.1, Anders Arrebo 1587–1637; .2, Anders Bording 1619–1677; .3, Peder Syv 1631–1702; .4, Thomas Kingo 1634–1703; .5, Peder Dass 1647–1708; .6, Dorthe Engelbrektsdatter 1635–1716; .7, Sören Ter Kelsen 1661; .8, Jacob Vorm 1642–1693.]

.814 **Age of Holberg.** 1700–1750.

[.1, Jörgen Sorterup 1662–1723; .2, Töger Reenberg 1656–1742; .3, Kristian Falster 1690–1752; .4, Hans Adolph Brorson 1694–1764; .5, Ambrosius Stub 1705–1758; .6, Kristian Frederik Wadskjær 1712–1779.]

839.815 **Period of Enlightenment.** 1750–1800.

[.1, Kristian Braunmann Tullin 1728–1765; .2, **Johannes Evald** 1743–1781; .3, Johan Herman Vessel 1742–1785; .4, Edvard Storm 1749–1794; .5, Kristen Henriksen Pram 1756–1821; .6, Jens Baggesen 1764–1826; .7, Knud Lyne Rahbek 1670–1830; .8, Malte Konrad Bruun 1775–1826; .9, Minor Writers.]

.816 **Modern Period.** 1800–

[.1, **Adam Gottlob Oehlenschläger** 1779–1850; .2, Bernhard Severin Ingemann 1789–1862; .3, Nicolai Frederik Severin Grundtvig 1783–1872; 4, Johannes Carsten Hauch 1790–1871; .5, Henrik Wergeland 1808–1845; .6, Ludvig Bödtcher 1793–1874; .7, Frederik Paludan-Müller 1809–1876; .8, Carl Ploug 1813–; .9, Minor Writers.

839.82 Danish and Norwegian Drama.

.823 **Learned Period.** 1560–1700

[.1, Hieronimus Justesen Rauch 1539–1607; .2, Hans Kristensen Sthen 1541–1603; .3, Peder Jensen Hegelund 1542–1614; .4, Hans Thomsen Stege; 5, Jens Lönberg 1663–1700.]

.824 **Age of Holberg.** 1700–1750.

[.1, **Ludvig Holberg** 1684–1754.]

.825 **Period of Enlightenment.** 1750–1800.

[.1, Charlotte Dorothea Biehl 1731–1788; .2, Johan Nordal Bruun 1745–1816; .3, Ole Johan Samsöe 1759–1796; .4, Enevold Falsen 1755–1808; .5, Thomas Thaarup 1749–1821; .6, Kristian Levin Sander 1756–1819; .7, Olaf Kristian Olufsen 1764–1827; .8, Peter Andreas Heiberg 1758–1841; .9, Minor Writers.]

.826 **Modern Period.** 1800–

[1, Caspar Johannes Boye 1791–1853; .2, Johan Ludvig Heiberg 1791–1860; .3, Henrik Hertz 1798–1870; .4, Thomas Overskou 1798–1873; .5, Christian Knud Frederik Molbech 1821–; .6, Henrik Ibsen 1828–.]

839.83 Danish and Norwegian Fiction.

.836 **Modern Period.** 1800–

[.1, Thomasine Christine Gyllembourg-Ehrensvärd 1773–1856; .2, Steen Steensen Blicher 1782–1848; .3, Christian Winther 1796–1876; .4, **Hans Christian Andersen** 1805–1875; .5, Meyer Aaron Goldschmidt 1819–; .6, Holger Drachmann; .7, **Björnstjerne Björnson** 1832–.]

839.84 Danish and Norwegian Essays.

.845 **Period of Enlightenment.** 1750–1800.

[Rasmus Nyerup 1759–1829.]

.846 **Modern Period.** 1800–

[.1, Niels Mathias Petersen 1781–1862; .2, Sören Aaby Kjérkegaard 1813–1855; .3, Rudolph Keyser 1803–1864; .4, Peter Andreas Munch 1810–1863; .5, Johan Sebastian Cammermeyer Welhaven 1807–1873; .6, Georg Brandes 1842–.]

839.87 Danish and Norwegian Satire and Humor.

.875 **Period of Enlightenment.** 1750–1800.

[.1, Peder Magnus Trojel 1743–1796; .2, Peder Koford Trojel 1754–1784; .3, Thomas Kristoffer Bruun 1750–1834.]

839.88 Danish and Norwegian Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc

.881 **Middle Ages.** 1100–1500.

[.1, Saxo (Longus) Grammaticus, *History*, –1208; .2, Svend Aagesen, *History*]

.882 **Reformation.** 1500–1560.

[.1, Kristiern Pedersen, "*The Father of Danish Literature*," 1480–1554; .2, Povel Eliesen, *Sermons*, 1480–; .3, Hans Mikkelsen, *Bible Translation*, –1532; .4, Peder Plade (Palladius) 1503–1560; .5, Henrik Smith, *Medicine*, –1563.]

.883 **Learned Period.** 1560–1700.

[**History**: Hans Svaning 1508–1584; Anders Sörensen Vedel 1542–1616; Peder Klausen 1545–1614; Arild Hvitfeld 1549–1609; Klaus Lyskander 1558–1623; Ole Worm 1588–1654; Peder Resen 1625–1688.]

[**Theology**: Niels Hemmingsen 1513–1600; Holger Rosenkranz 1574–1642; Jesper Brochmand 1585–1652.]

[**Science**: Tyge Brahe, *Astronomy*, 1546–1601; Kaspar Bartholin, *Medicine*, 1585–1629; Thomas Bartholin, *Anatomy*, 1616–1680; Ole Borch, *Medicine*, 1626–1690; Niels Stensen, *Anatomy*, 1638–1686; Ole Römer, *Astronomy*, 1644–1710.]

.884 **Age of Holberg.** 1700–1750.

[1, Erik Pontoppidan, *History*, 1698–1764; .2, Jacob Langebek, *History*, 1710–1775; .3, Frederik Kristian Eilschov, , 1725–1750; .4, Gerhard Schöning, *History*, 1722–1780; 5, Peder Frederik Suhm, *History*, 1728–1798.]

.9 Gothic.

840 French Literature.

841 French Poetry.
842 „ Drama.
843 „ Fiction.
844 „ Essays.
845 „ Oratory.
846 „ Letters.
847 „ Satire, Humor.
848 „ Miscellany.
849 Provençal Literature.

[These Romance Literatures are subdivided into periods, with the leading authors indicated as are English and German. These heads are undergoing a careful revision, and have therefore been omitted from this edition, but will be supplied in form to be inserted in place of this page.]

850 Italian Literature.

851 Italian Poetry.
852 „ Drama.
853 „ Fiction.
854 „ Essays.
855 „ Oratory.
856 „ Letters.
857 „ Satire, Humor.
858 „ Miscellany.
859 Rumansh and Wallachian.

860 Spanish Literature.

861 Spanish Poetry.
862 „ Drama.
863 „ Fiction.
864 „ Essays.
865 „ Oratory.
866 „ Letters.
867 „ Satire, Humor.
868 „ Miscellany.
869 Portuguese Literature.

840 French Literature.

840.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on French Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

841 French Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of French Poetry.

.1 Early French, 842–1400.

.11 **"Chanson de Roland."** "Chanson de Geste."
.12 Wace, Robert.
.13 Marie de France.
.14 Chrestien de Troyes –1191.
.15 Quesnes de Bethune –1228.
.16 Thibaut 4th, comte de Champagne 1201–1253.
.17 Rutebeuf 1230–
.18 **"Roman de la Rose."**
Guillaume de Loris, 1195–1260. Jean de Meung, 1280–1320.
.19 Minor Poets.

.2 Transition Period, 1400–1500.

.21 Chartier, Alain 1386–1458.
.22 Orléans, Charles duc d' 1391–1465.
.23 Coquillart, Guillaume 1421–1510.
.24 Baude, Henri 1430–1495.
.25 Villon, François 1431–1485.
.26
.27
.28
.29 Minor Poets.

.3 Renaissance, 1500–1600.

.31 Daurat, Jean 1510–1588.
.32 Du Bellay, Joachim 1524–1560.
.33 Belleau, Remy 1528–1577.
.34 Ronsard, Pierre de 1524–1585.
.35 Thiard, Pontus de 1521–1605.
.36 Baïf, Jean Antoine de 1532–1589.
.37 Saluste du Bartas, Guillaume de 1544–1590.
.38 Desportes, Philippe 1546–1606.
.39 Minor Poets.

.4 Classical Period, 1600–1715.

.41 Malherbe, François de 1555–1628.
.42 Maynard, François 1582–1646.
.43 Racan, Honorat de Bueil, marquis de 1589–1670.
.44 Chapelain, Jean 1595–1674.
.45 **La Fontaine, Jean de** 1621–1695.
.46 Deshoulières, Antoinette (du Ligier de la Garde), Madame 1637–1694.
.47 Chaulieu, Guillaume Amfrye de 1639–1720.
.48
.49 Minor Poets.

841.5 **18th Century, 1715–1789.**

.51 Rousseau, Jean Baptiste 1670–1741.
.52 Racine, Louis 1692–1763.
.53 Pompignan, Jean Jacques de Franc, marquis de 1709–1784.
.54 Delille, Jacques 1738–1813.
.55 Roucher, Jean Antoine 1745–1794.
.56 Chénier, André Marie de 1762–1794.
.57 Parny, Evariste Désiré Desforges, vicomte de 1753–1814.
.58
.59 Minor Poets.

.6 **Revolution and Empire, 1789–1815.**

.61 Lebrun, Ponce Denis Écouchard 1729–1807.
.62 Fontanes, Louis, marquis de 1757–1821.
.63 Parseval Grandmaison, François Auguste 1759–1834.
.64 Luce de Lancival, Jean Charles Julien 1764–1810.
.65 Désaugiers, Marc Antoine Madeleine 1772–1827.
.66 Campenon, François Nicolas Vincent 1772–1843.
.67 Millevoye, Charles Hubert 1782–1816.
.68
.69 Minor Poets.

.7 **Constitutional Monarchy, 1815–1848.**

.71 **Béranger, Pierre Jean de** 1780–1857.
.72 Delavigne, Jean François Casimir 1793–1843. See 842.72.
.73 Deschamps, Émile 1791–1871.
.74 Lamartine, Alphonse Marie Louis de Prat de 1792–1869.
.75 Reboul, Jean 1796–1864.
.76 Vigny, Alfred Victor, comte de 1799–1863. See 842.75.
.77 Musset, Louis Charles Alfred de 1810–1857. See 842.76.
.78 **Hugo, Victor Marie, comte** 1802–1885. See 842.78 and 843.78.
.79 Minor Poets.

.8 **Later 19th Century, 1848–**

.81 Laprade, Pierre Marin Victor Richard de 1812–1883.
.82 Dupont, Pierre 1821–1870.
.83 Banville, Theodore Faullain de 1820–
.84 Sully-Prudhomme, René François Armand 1839–
.85 Coppée, Francis Édouard Joachim 1842– See 842.88.
.86 Deroulède, Paul 1846–
.87
.88
.89 Minor Poets.

842 French Drama.

.1 **Early French, 842–1400.**

.11 Mysteries and Miracles.
.12 Adam de la Halle 1240–1286.
.13 Bodel, Jean.
.14
.15
.16
.17
.18
.19 Minor Dramatists.

842.2 **Transition Period, 1400–1500.**

.21 Gresban, Arnoul.
.22 Michel, Jean –1493.
.23 Gringoire, Pierre 1480–1544.
.24
.25
.26
.27
.28
.29 Minor Dramatists.

.3 **Renaissance, 1500–1600.**

.31 Le Coq, Thomas.
.32 Baïf, Lazare de.
.33 La Peruse, Jean Bastier de 1530–1555.
.34 Jodelle, Étienne 1532–1573.
.35 Grévin, Jacques 1538–1570.
.36 La Taille, Jean de 1540–1608.
.37 Garnier, Robert 1545–1601.
.38 Larivey, Pierre de 1550–1612.
.39 Minor Dramatists.

.4 **Classical Period, 1600–1715.**

.41 **Corneille, Pierre** 1606–1684.
.42 **Molière, Jean Baptiste Poquelin,** *called* 1622–1673.
.43 Corneille, Thomas 1625–1709.
.44 Boursault, Edme 1638–1701.
.45 **Racine, Jean** 1639–1699.
.46 Brueys, David Augustin de 1640–1723.
.47 Dufresny, Charles Rivière 1648–1724.
.48 Baron, Michel Boyron, *called* 1653–1729.
.49 Minor Dramatists.

.5 **18th Century, 1715–1789.**

.51 La Motte, Antoine Houdart de 1672–1731.
.52 Crebillon, Prosper Jolyot de 1674–1762.
.53 Destouches, Philippe Nericault 1680–1754.
.54 Marivaux, Pierre Carlet de Chamblain de 1688–1763. See 843.52.
.55 Piron, Alexis 1689–1773.
.56 **Voltaire, François Marie Arouet de** 1694–1778. See 843.54.
.57 Sédaine, Michel Jean 1719–1797.
.58 Beaumarchais, Pierre Augustin Caron de 1732–1799.
.59 Minor Dramatists.

.6 **Revolution and Empire, 1789–1815.**

.61 Ducis, Jean François 1733–1816.
.62 Collin-Harleville, Jean François 1735–1806.
.63 La Harpe, Jean François de 1739–1803. See 844.61.
.64 Fabre d'Églantine, Philippe François Nazaire 1755–1794.
.65 Andrieux, François Guillaume Jean Stanislas 1759–1833.
.66 Chenier, Marie Joseph 1764–1811.
.67 Picard, Louis Benoît 1769–1828.
.68 Lemercier, Louis Jean Népomucène 1771–1840.
.69 Minor Dramatists.

842.7 **Constitutional Monarchy, 1815–1848.**

.71 Soumet, Alexandre 1788–1845.
.72 Delavigne, Jean François Casimir 1793–1843. See 841.72.
.73 Scribe, Augustin Eugène 1791–1861.
.74 Ancelot, Jacques Arsène François Polycarpe 1794–1864.
.75 Vigny, Alfred Victor, comte de 1799–1863. See 841.76.
.76 Musset, Louis Charles Alfred de 1810–1857. See 841.77.
.77 **Dumas, Alexandre, the elder** 1806–1870. See 843.76.
.78 **Hugo, Victor Marie, comte** 1802–1885. See 841.78 and 843.78.
.79 Minor Dramatists.

.8 **Later 19th Century, 1848–**

.81 Labiche, Eugène Marin 1815–
.82 Ponsard, François 1824–1867.
.83 Augier, Guillaume Victor Émile 1822–
.84 Dumas, Alexandre, fils 1824–
.85 Bornier, Henri de 1825–
.86 Sardou, Victorien 1831–
.87 Pailleron, Édouard 1834–
.88 Coppée, Francis Édouard Joachim 1842– See 841.85.
.89 Minor Dramatists.

843 French Fiction.

.2 **Transition Period, 1400–1500.**

.21 Christine de Pisan 1363–1431.
.22 Jean de Tuim.
.23 La Sale, Antoine de 1398–1462.
.24 Chastelain, Georges 1403–1475.
.25
.26
.27
.28
.29 Minor Writers.

.3 **Renaissance, 1500–1600.**

.31 Marguerite de Navarre 1492–1549.
.32 Desperriers, Bonaventure 1500–1544.
.33 Herberay, Nicolas d' –1552.
.34 Du Fail, Noël –1585.
.35 Bouchet, Guillaume 1526–1606.
.36 Beroalde de Verville, François 1558–1612.
.37
.38
.39 Minor Writers.

.4 **Classical Period, 1600–1715.**

.41 Urfé, Honoré d' 1568–1625.
.42 Gomberville, Marin Le Roy de 1600–1647.
.43 La Calprenède, Gauthier de Costes de 1602–1663.
.44 Scudéry, Georges de 1601–1667.
.45 Scudéry, Madeleine de 1607–1701.
.46 Cyrano de Bergerac, Savinien 1620–1655.
.47 Perrault, Charles 1628–1703.
.48 Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de 1634–1693.
.49 Minor Writers.

843.5 **18th Century, 1715–1789.**

.51 La Sage, Alain René 1668–1747.
.52 Marivaux, Pierre Carlet de Chamblain de 1688–1763. See 842.54.
.53 Prevost d'Exiles, Antoine François 1697–1763.
.54 **Voltaire, François Marie Arouet de** 1694–1778. See 842.56.
.55 Crébillon, Claude Prosper Jolyot de, fils 1707–1777.
.56 **Rousseau, Jean Jacques** 1712–1778.
.57 Restif de la Bretonne, Nicolas Edme 1734–1806.
.58 Florian, Jean Pierre Claris de 1755–1794.
.59 Minor Writers.

.6 **Revolution and Empire, 1789–1815.**

.61 St. Pierre, Jacques Henri Bernardin de 1737–1814.
.62 **Staël Holstein, Anne Louise Germaine (Necker), baronne de** 1766–1817.
.63 Constant de Rebecque, Henri Benjamin 1767–1830.
.64 Maistre, Xavier de 1763–1852.
.65 Chateaubriand, François Auguste René, vicomte de 1768–1848.
.66
.67
.68
.69 Minor Writers.

.7 **Constitutional Monarchy, 1815–1848.**

.71 Beyle, Marie Henri [de Stendhal] 1783–1842.
.72 Nodier, Charles 1790–1844.
.73 **Balzac, Honoré de** 1799–1850.
.74 Sue, Marie Joseph, *called* Eugène 1804–1857.
.75 Souvestre, Émile 1806–1854.
.76 **Dumas, Alexandre, the elder** 1806–1870. See 842.77.
.77 Gautier, Theophile 1811–1872.
.78 **Hugo, Victor Marie, comte** 1802–1885. See 841.78 and 842.78.
.79 Minor Writers.

.8 **Later 19th Century, 1848–**

.81 Mérimée, Prosper 1803–1870.
.82 **Dudevant, Amantine Lucile Aurore Dupin [George Sand]** 1804–1876.
.83 Feuillet, Octave 1812–
.84 Flaubert, Gustave 1821–1881.
.85 Erckmann-Chatrian { Erckmann, Émile 1822– / Chatrian, Alexandre 1826–
.86 About, Edmond François Valentin 1828–1885
.87 Cherbuliez, Victor 1832–
.88 Daudet, Alphonse 1840–
.89 Minor Writers.

844 French Essays.

.3 **Renaissance, 1500–1600.**

.31 **Montaigne, Michel Eyquem de** 1533–1592.

.4 **Classical Period, 1600–1715.**

.41 Du Vair, Guillaume 1556–1621.
.42 Saint-Évremond, Charles de Marguetel de Saint-denis de 1613–1703.

844.5 **18th Century, 1715–1789.**

.51 Fontenelle, Bernard le Bovier de 1657–1757.
.52 Montesquieu, Charles le Secondat, baron de 1689–1755.
.53 Alembert, Jean le Rond d' 1717–1783.

.6 **Revolution and Empire, 1789–1815.**

.61 La Harpe, Jean François de 1739–1803. See 842.63.
.62 Joubert, Joseph 1754–1824.
.63 Courier de Méré, Paul Louis 1772–1825.
.64 Senancour, Étienne Pivert de 1770–1846.

.7 **Constitutional Monarchy, 1815–1848.**

.71 La Mennais, Hugues Félicité Robert de 1782–1854.
.72 Villemain, Abel François 1790–1870.
.73 Planche, Jean Baptiste Gustave 1808–1857.
.74 **Sainte Beuve, Charles Augustin** 1804–1869.
.75 Saint-Marc Girardin 1801–1873.
.76 Janin, Jules Gabriel 1804–1874.
.77 Nisard, Jean Marie Napoléon Désiré 1806–

.8 **Later 19th Century, 1848–**

.81 Quinet, Edgar 1803–1875.
.82 Renan, Ernest 1823–
.83 Taine, Hippolyte Adolphe 1828–

845 French Oratory.

Subdivided by periods, like 841.

846 French Letters.

Subdivided by periods, like 841.

847 French Satire and Humor.

.1 **Early French, 842–1400.**

.11 Guyot de Provins.
.12 "Roman du Renard." See 837.31 and 839.371.
.13 Deschamps, Eustache 1320–1400.

.3 **Renaissance, 1500–1600.**

.31 Marot, Clement 1495–1544.
.32 **Rabelais, François** 1495–1553.
.33 "La Satyre Ménippée" 1594.
.34 Aubigné, Théodore Agrippa d' 1550–1630.
.35 Regnier, Mathurin 1573–1613.

.4 **Classical Period, 1600–1715.**

.41 Viau, Théophile de 1590–1626.
.42 Saint Amant, Marc Antoine Gérard 1594–1661.
.43 Scarron, Paul 1610–1660.
.44 Benserade, Isaac de 1612–1691.
.45 Furetière, Antoine 1620–1688.
.46 **Boileau Despréaux, Nicolas** 1636–1711.
.47 Regnard, Jean François 1655–1709.

.5 **18th Century, 1715–1789.**

.51 Gresset, Jean Baptiste Louis 1709–1777.
.52 Gilbert, Nicolas Joseph Laurent 1751–1780.

.7 **Constitutional Monarchy, 1815–1848.**

.71 Barthélemy, August Marseille 1796–1867.
.72 Barbier, Henri Auguste 1805–1882.

848 French Miscellany.

Subdivided by periods, like 841.

849 Provençal Literature.

.1 **Provençal poetry.**

.11 1st Period. 900–1100.

Poetry in hands of clergy. No folk poetry preserved. Form mainly epic. Language not yet fixed. Country under rule of counts, nominally subject to Emperor, really independent till 1486, then reunited to France.

.111 Epic Poetry.
Boethius.

.112 Lyric Poetry.
.119 Minor poetry. Didactic.

.12 Golden Age. 1100–1300.

Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most important.

.121 Romances of Chivalry.
Girart de Rossilho.

.122 Historical Poetry.
Croisade contre les Albigeois.

.123 Romans d'Aventures.
Flamenca.

.124 Lyric Poetry.
.125 Bernart de Ventadorn flourished about 1140–1195.
.126 Born, Bertran de " " 1180–1195.
.127 Arnaut Daniel " " 1180–1200.
.128 Borneill, Guiraut de, " " 1175–1220.
.129 Minor poetry.

Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours.

.13 Aftermath 1300–1500.

Downfall of language and literature owing to lack of content and to political and social causes, especially the Crusade against the Albigenses.

.131 Poets of school of Toulouse.

Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial—a craft Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, Chancellor of "Consistory de la gaya sciensa" established at Toulouse 1324. First prize a golden violet. When in danger of perishing, Consistory revived in 1484 and poetic exercises styled "Jeux Floraux."

.132 La Noble Leyczon.

Religious poetry of Waldenses.

.139 Minor poetry.

.14 Decadence. 1500–

Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852.

.141 Goudouli, Pierre de 1579–1649.
.142 Despourrins, Cyprien 1698–1755.
.143 Jasmin, Jacques 1798–1864.
.144 Roumanille, Joseph 1818–
.145 Aubanel, Jos. Marie J. Baptiste Theodore 1829–
.146 Mistral, Frederic 1830–
.149 Minor poetry.

850 Italian Literature.

850.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on Italian Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

851 Italian Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric. Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Italian Poetry.

.1 Early Italian; Age of Dante, –1375

To death of Boccaccio, 1375.

.11	Protonotario, Stefano	–1250.
.12	Arezzo, Guittone d'	–1294.
.13	Guinicelli, Guido	–1276.
.14	Cavalcanti, Guido	1260–1300.
.15	**Alighieri, Dante**	1265–1321.
.16	Pistoia, Cino da	1270–1336.
.17	Uberti, Fazio degli	–1369.
.18	**Petrarca, Francesco**	1304–1374.
.19	Minor Poets.	

.2 Period of Classical Learning, 1375–1492.

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492.

.21	Frezzi, Federigo	–1416.
.22	Bojardo, Matteo	1430–1494.
.23	**Medici, Lorenzo dei** (Il Magnifico) 1448–1492.	
.24	**Poliziano, Angelo**	1454–1494. See 852.22.
.25	Berivieni, Girolamo	1453–1542.
.26	Sannazzaro, Jacopo	1458–1530.
.29	Minor Poets.	

.3 Age of Leo the Tenth, 1492–1542.

From death of Lorenzo il Magnifico, 1492, to Convocation of Council of Trent, 1542.

.31	Bembo, Pietro	1470–1547.
.32	**Ariosto, Lodovico**	1474–1533.
.33	Rucellai, Giovanni	1475–1526.
.34	Molza, Francesco	1483–1544. See 853.33.
.35	Tasso, Bernardo	1493–1569.
.36	Alamanni, Luigi	1495–1556.
.37	Guidiccioni, Giovanni	1500–1541.
.38	Casa, Giovanni della	1503–1556.
.39	Minor Poets.	

4. Later 16th Century, 1542–1585.

From Convocation of Council of Trent, 1542, to Pontificate of Sixtus V., 1585.

.41	Costanzo, Angelo di	1507–1591.
.42	Rota, Bernardino	1509–1575.
.43	Tansillo, Luigi	1510–1568.
.44	Magno, Celio	1536–1602.
.45	Guarini, Giovambattista	1537–1612.
.46	**Tasso, Torquato**	1544–1595.
.47	Baldi, Bernardino	1553–1617.
.49	Minor Poets.	

851.5 Period of Decline, 1585–1748.

From Pontificate of Sixtus V., 1585–90, to Peace of Aix-la-Chapelle, 1748.

.51	Chiabrera, Gabriello	1552–1637.
.52	Marini, Giovambattista	1569–1625.
.53	Testi, Fulvio	1593–1646.
.54	Filicaja, Vincenzo	1642–1707.
.55	Guidi, Alessandro	1650–1712.
.56	Manfredi, Eustachio	1674–1738.
.57	Frugoni, Carlo Innocenzo	1692–1768.
.58	Algarotti, Francesco	1712–1764.
.59	Minor Poets.	

.6 Period of Renovation, 1748–1814.

From Peace of Aix-la-Chapelle, 1748, to Congress of Vienna, 1814.

.61	Paradisi, Agostino	1736–1783.
.62	Mascheroni, Lorenzo	1750–1800.
.63	Pindemonte, Ippolito	1753–1828.
.64	Monti, Vincenzo	1754–1828.
.65	Cassi, Francesco	1778–1846.
.66	Foscolo, Ugo	1779–1827.
.67	Arici, Cesare	1782–1836.
.68	Sestini, Bartolommeo	1792–1822.
.69	Minor Poets.	

.7 Early 19th Century, 1814–1859.

From Congress of Vienna, 1814, to War of Independence, 1859.

.71	Berchet, Giovanni	1783–1851.
.72	Rossetti, Gabriello	1783–1854.
.73	Manzoni, Alessandro	1785–1873. See 853.72.
.74	Marchetti, Giovanni	1790–1852.
.75	Leopardi, Giacomo	1798–1837.
.76	Carrer, Luigi	1801–1850.
.77	Regaldi, Giuseppe	1809–1883.
.78	Prati, Giovanni	1815–1884.
.79	Minor Poets.	

.8 Later 19th Century, 1859–

From War of Independence, 1859, to

.81	Aleardi, Aleardo	1810–1878.
.82	Zanella, Giacomo	1820–
.83	Gnoli, Domenico	1836–
.84	Carducci, Giosuè	1836–
.85	Fogazzaro, Antonio	1842–
.86	Rapisardi, Mario	1843–
.87	Guerrini, Olindo	1845–
.88		
.89	Minor Poets.	

852 Italian Drama.

.1 Early Italian; Age of Dante, –1375.

.2 Period of Classical Learning, 1375–1492.

.21	Belcari, Feo	1410–1484.	
.22	Poliziano, Angelo	1454–1494.	See 851.24.
.29	Minor Dramatists.		

.3 Age of Leo the Tenth, 1492–1542.

.31	Machiavelli, Niccolò	1469–1527.	See 854.31.
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520.	
.33	Trissino, Gian Giorgio	1478–1550.	
.34	Aretino, Pietro	1492–1556.	
.35	Ambra, Francesco d'	–1558.	
.39	Minor Dramatists.		

.4 Later 16th Century, 1542–1585.

.41	Speroni, Sperone	1500–1588.	
.42	Giraldi, G. B. Cinzio	1504–1573.	See 853.44.
.43	Cecchi, Giovanni Maria	1517–1587.	
.44	Asinari, Federigo	1527–1576.	
.45	Porta, Giovambattista della	1538–1615.	
.49	Minor Dramatists.		

.5 Period of Decline, 1585–1748.

.51	Buonarroti, Michelangiolo, Jr.	1564–1646.
.52	Rinuccini, Ottavio	1565–1622.
.53	Andreini, Giovambattista	1578–1650.
.54	Gigli, Girolamo	1660–1722.
.55	Zeno, Apostolo	1669–1750.
.56	Maffei, Scipione	1675–1755.
.57	Trapassi, Pietro (Metastasio)	1698–1782.
.59	Minor Dramatists.	

.6 Period of Renovation, 1748–1814.

For Manzoni, see 851.73 and 853.72.

.61	**Goldoni, Carlo**	1707–1793.
.62	Gozzi, Carlo	1722–1806.
.63	Capacelli Albergati, Francesco	1728–1804.
.64	**Alfieri, Vittorio**	1749–1803.
.65	Nota, Alberto	1775–1847.
.66	Biondi, Luigi	1776–1839.
.67	Benedetti, Francesco	1785–1821.
.69	Minor Dramatists.	

.7 Early 19th Century, 1814–1859.

.71	Niccolini, Giovambattista	1782–1861.
.72	Pellico, Silvio	1788–1854.
.73	Giacometti, Paolo	1816–1881.
.74	Gherardi del Testa, Tommaso	1818–1882.
.75	Ferrari, Paolo	1822–
.79	Minor Dramatists.	

852.8 Later 19th Century, 1859–

.81	Bersezio, Vittorio	1830–
.82	Cossa, Pietro	1833–1882.
.83	Carrera, Valentino	1834–
.84	Marenco, Leopoldo	1836–
.85	Cavallotti, Felice	1842–
.86	Torelli, Achille	1844–
.87		
.88		
.89	Minor Dramatists.	

853 Italian Fiction.

.1 Early Italian; Age of Dante, –1375.

.11	"Cento Novelle Antiche" (Gualteruzzi's Collection).		
.12	Barberino, Francesco da	1264–1348.	
.13	Pisa, Guido da	–1350.	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–1375.	
.19	Minor Writers.		

.2 Period of Classical Learning, 1375–1492.

.21	Sacchetti, Franco	–1400.
.22	Fiorentino, Ser Giovanni	
.23	Manetti, Antonio	1423–1497.
.24	Mangabotti, Andrea dei	
.25	Prato, Giovanni da	
.29	Minor Writers.	

.3 Age of Leo the Tenth, 1492–1542.

.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561.	
.33	Molza, Francesco	1483–1544.	See 851.34.
.34	Firenzuola, Agnolo	1493–1548.	
.39	Minor Writers.		

.4 Later 16th Century, 1542–1585.

.41	Grazzini, Antonfrancesco (Lasca)	1503–1583.	
.42	Doni, Antonfrancesco	1513–1574.	
.43	Erizzo, Sebastiano	1525–1585.	
.44	Giraldi, G. B. Cinzio	1504–1573.	See 852.42.
.45	Parabosco, Girolamo	–1560.	
.49	Minor Writers.		

.5 Period of Decline, 1585–1748.

.6 Period of Renovation, 1748–1814.

853.7 **Early 19th Century, 1814–1859.**

.71	Rosini, Giovanni	1776–1855.	
.72	**Manzoni, Alessandro**	1785–1873.	See 851.73.
.73	Grossi, Tommaso	1791–1853.	
.74	Guerrazzi, Francesco Domenico	–1873.	
.75	Bresciani, Antonio	1798–1862.	
.76	Cantù, Cesare	1807–	
.77	Carcano, Giulio	1812–1883.	
.78	Azeglio, Massimo d'	1800–1866.	
.79	Minor Writers.		

.8 **Later 19th Century, 1859–**

.81	Castellazzo, Luigi	1827–
.82	Barrili, Anton Giulio	1836–
.83	Capuana, Luigi	1839–
.84	Verga, Giovanni	1840–
.85	Faldella, Giovanni	1846–
.86	Farina, Salvatore	1846–
.87	Giovagnoli, Raffaello	
.88	Serao, Matilde	1856–
.89	Minor Writers.	

854 Italian Essays.

.1 **Early Italian; Age of Dante, –1375.**

.11	Cavalca, Fra Domenico	–1342.
.12	Passavanti, Fra Jacopo	–1357.

.2 **Period of Classical Learning, 1375–1492.**

.21	Alberti, Leone Battista	1404–1472.
.22	Palmieri, Matteo	1405–1475.
.23	Bisticci, Vespasiano da	1421–1498.
.24	Collenuccio, Pandolfo	–1504.
.25	Vinci, Leonardo da	1452–1519.
.29	Minor Essayists.	

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Machiavelli, Niccolò	1469–1527.	See 852.31.
.32	Nardi, Jacopo	1476–1555.	
.33	Castiglione, Baldassare	1478–1529.	
.34	Guicciardini, Francesco	1482–1540.	
.35	Giannotti, Donato	1494–1573.	
.36	Giambullari, Pier Francesco	1495–1555.	
.37	Gelli, Giovambattista	1498–1563.	
.38	Varchi, Benedetto	1503–1566.	
.39	Minor Essayists.		

854.4 **Later 16th Century, 1542–1585.**

.41	Castelvetro, Ludovico	1505–1571.
.42	Piccolomini, Alessandro	1508–1578.
.43	Borghini, Vincenzo	1515–1580.
.44	Davanzati, Bernardo	1529–1606.
.45	Salviati, Leonardo	1540–1589.
.46	Ammirato, Scipione	1531–1601.
.47	Paruta, Paolo	1540–1598.
.48	Botero, Giovanni	1540–1617.
.49	Minor Essayists.	

.5 **Period of Decline, 1585–1748.**

.51	Sarpi, Paolo	1550–1623.
.52	Galilei, Galileo	1564–1642.
.53	Bartoli, Daniele	1608–1685.
.54	Dati, Carlo	1619–1675.
.55	Gravina, Giovanni Vincenzo	1664–1718.
.56	Muratori, Ludovico Antonio	1672–1750.
.57	Giannone, Pietro	1676–1748.
.58	Zanotti, Francesco Maria	1692–1777.
.59	Minor Essayists.	

.6 **Period of Renovation, 1748–1814.**

.61	Bettinelli, Saverio	1718–1808.
.62	Denina, Carlo	1730–1813.
.63	Tiraboschi, Girolamo	1731–1794.
.64	Lanzi, Luigi	1732–1810.
.65	Beccaria, Cesare	1735–1793.
.66	Filangeri, Gaetano	1752–1788.
.67	Cesari, Antonio	1760–1828.
.68	Perticari, Giulio	1779–1822.
.69	Minor Essayists.	

.7 **Early 19th Century, 1814–1859.**

.71	Costa, Paolo	1771–1836.
.72	Giordani, Pietro	1774–1848.
.73	Troya, Carlo	1785–1859.
.74	Balbo, Cesare	1789–1853.
.75	Capponi, Gino	1792–1878.
.76	Mamiani della Rovere, Terenzio	1800–1885.
.77	Gioberti, Vincenzo	1801–1853.
.78	Tommaséo, Niccolò	1802–1874.
.79	Minor Essayists.	

.8 **Later 19th Century, 1859–**

.81	Sanctis, Francesco de	1818–
.82	Bonghi, Ruggiero	1827–
.83	Conti, Augusto	1827–
.84	Villari, Pasquale	1827–
.85	Ardigò, Roberto	1828–
.86	Comparetti, Domenico	1835–
.87	Zumbini, Bonaventura	1840–
.88	Panzacchi, Enrico	1841–
.89	Minor Essayists.	

855 Italian Oratory.

856 Italian Letters.

857 Italian Satire and Humor.

.1 Early Italian; Age of Dante, –1375.

.11 Gemignano, Folgore da San
.12 Chitarra, Cene dalla
.13 Angiulieri, Cecco
.14 Pucci, Antonio –1377.
.19 Minor Writers.

.2 Period of Classical Learning, 1375–1492.

.21 Burchiello, Domenico 1395–1448.
.22 Pulci, Luigi 1432–1484.
.23 Vinciguerra, Antonio
.29 Minor Writers.

.3 Age of Leo the Tenth, 1492–1542.

.31 Folengo, Teofilo (Merlin Cocai) 1491–1544.
.32 Berni, Francesco 1496–1535.
.39 Minor Writers.

.4 Later 16th Century, 1542–1585.

.41 Nelli, Pietro
.42 Beccuti, Francesco 1509–1553.
.43 Caporali, Cesare 1531–1601.
.49 Minor Writers.

.5 Period of Decline, 1585–1748.

.51 Tassoni, Alessandro 1565–1635.
.52 Bracciolini, Francesco 1566–1645.
.53 Lalli, Giovambattista 1572–1637.
.54 Lippi, Lorenzo 1606–1664.
.55 Rosa, Salvatore 1615–1673.
.56 Menzini, Benedetto 1646–1704.
.57 Sergardi, Ludovico 1660–1726.
.58 Fortiguerri, Niccolò 1674–1736.
.59 Minor Writers.

.6 Period of Renovation, 1748–1814.

.61 Gozzi, Gasparo 1713–1786.
.62 Passeroni, Gian Carlo 1713–1803.
.63 Casti, Giovambattista 1721–1803.
.64 Parini, Giuseppe 1739–1799.
.65 Baretti, Giuseppe 1716–1789.
.66 Elci, Angelo Maria d' 1754–1824.
.67 Pananti, Filippo 1766–1837.
.69 Minor Writers.

.7 Early 19th Century, 1814–1859.

.71 Giusti, Giuseppe 1809–1850.

858 Italian Miscellany.

.8 Later 19th Century, 1859–

.81 Gubernatis, Angelo de 1840–
.82 Amicis, Edmondo de 1846–

859 Wallachian Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

.9 Rumansh Literature

Subdivided like 859.

860 Spanish Literature.

860.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

861 Spanish Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads: .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Spanish Poetry.

.1 Early Spanish. –1369.

In 711 the Visigothic kingdom, founded in the 5th cent. was overthrown by Arabs; 711–1492 Arabic Period or Age of Reconquest.

Literature began in first half of 12th cent. Earliest poetry, epic; subjects national, themes war and religion (861.11–12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and 14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Through him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 "Primitive Monuments."
.12 **"Poema de mio Cid."**
.13 Berceo, Gonzalo de 1196–1266.
.14 Segura de Astorga, Juan Lorenzo 1250.
.15 Yañez Ruy (Cronica del Rey Alfonso Onceno).
.16 Sem Tob, Rabbí 1350.
.19 Minor Poets.

.2 Age of Imitation. 1369–1516.

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were three distinct schools:

1. Provençal, specially influential at court.
2. Italian (Dante) or Allegorical, introduced by Francisco Imperial, a Genoese. (Mena, 861.22.)
3. Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21).

.21 Lopez de Ayala, Pedro 1332–1407.
.22 Mena, Juan de 1411–1456.
.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458.
.24 Manrique, Jorge 1440–1479.
.25 Los "Cancioneros" } Collections of poetry.
.26 Los "Romances" }
.27 **Romancero del Cid.**

"Romances" popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th cent. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492.

.29 Minor Poets.

.3 **Golden Age.** 1516–1700.

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera—16th cent.; Ribera 1588–1656; Zurbaran 1598–1662; **Velazquez** 1599–1660; Cano 1601–1667; **Murillo** 1618–1682, etc

Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death.

Great number of poets. Nothing notable in Epic; Lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of two schools follows in which the Italian wins the major influence. Thereafter appear two new schools:

1. Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
2. Sicillian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of "bad taste" appear; (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. "Bad taste" consisted in artificialities, exaggerations, obscurities, etc.

.31 Vega, Garcilaso de la 1503–1536.
.32 Castillejo, Cristóbal de 1494–1596.
.33 Leon, Luis Ponce de 1528–1591.

Leon is equally important in prose.

.34 Los Argensolas: Lupercio, 1563–1613; Bartolomé Leonardo 1564–1631.
.35 Herrera, Fernando de 1534–1597.
.36 Mendoza, Diego Hurtado de 1503–1575.
.37 Góngora y Argote, Luis de 1561–1627.
.38 Rioja, Francisco de 1600–1659.
.39 Minor Poets.

.4 **18th century.** 1700–1800.

At death of Carlos 2nd (1700) war of succession resulted in firm establishment of House of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, "bad taste" every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish Academy, 1714), and doctrinal reform in French sense, proclaimed by Luzan (1702–54) in "La Poetica," etc. Thereafter a kind of revival. Three schools formed:

1. Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44).
2. Antique National, protesting against introduction of French taste. Huerta (861.43).
3. Salamanca School, an attempt to reconcile the first two, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). "Prosaism" production of exaggerated opposition to Gongorism or "bad taste" also characterizes period. Influence of French Encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism.

Rich development of fables and apologues in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty.

.41 Moratin (The elder), Nicolás Fernandez de 1737–1780.
.42 Cadalso, José de 1741–1782.
.43 Huerta, Vicente Antonio García de la 1734–1787.
.44 Samaniego, Félix María de 1745–1801.
.45 Yriarte, Tomás de 1750–1791.
.46 Valdés, Juan Melendez 1754–1817.
.47 Iglesias de la Casa, José 1748–1791.
.48 Cienfuegos, Nicasio Álvarez de 1764–1809.
.49 Minor Poets.

861.5 **19th century.** 1800–

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) quelled. Isabella driven from throne by revolution 1868; 1871–Amadeo (Savoy house), 1873, abdicates and republic is proclaimed; Restoration of monarchy in person of Alfonso 12th in 1875.

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism re-introduced and revolution followed. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awaking with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53).

.51 Quintana, Manuel José 1772–1857.
.52 Espronceda, José de 1810–1842.
.53 Zorrilla y Moral, José 1817–
.54 Gutierrez, Antonio García 1812–
.55 Gil y Zárate, Antonio 1792–1861.
.56 Hartzembusch, Juan Eugenio 1806–1880.
.59 Minor Poets.

862 Spanish Drama.

.2 **Age of Imitation.** 1369–1516.

Evidences of existence of "mysteries" but no remains.

.21 Enzina, Juan del (?)1468–1534.
.22 Vicente, Gil (?)1450–1536.

.3 **Golden Age.** 1516–1700.

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 "Lope" had written 1500 dramas), 30,000 dramas composed by beginning of 18th cent. At opening of period Church tried to check development of profane drama placing nearly all in the "Index." Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence.

.31 **Vega Carpio, Lope Felix de** 1562–1635.
.32 Cāstro y Bēlvis Guillen de 1567–1621.
.33 Tellez, Gabriel (Tirso de Molina, pseud. (?)1570–1648.
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639.
.35 **Calderon de la Barca, Pedro** 1600–1681.
.36 Rojas y Zorrilla, Francisco de 1607–
.37 Moreto y Cabaña, Agustin 1618–1669.
.39 Minor Dramatists.

.4 **18th Century.** 1700–1800.

Complete decadence of drama in last years of old monarchy. Revival in 18th cent., following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National School voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of writers, Comella (862.41)-Period of unrest; old ideas cannot be reëstablished, new cannot be naturalized.

For Moratin the elder, see 861.41 and Huerta, 861.43.

.41 Comella, Luciano Francisco 1716–1779.
.42 Moratin, Leandro Fernandez de 1760–1828.
.43 Cruz, Ramon de la (Light comedies) 1731–1795.
.49 Minor dramatists.

.5 **19th Century.** 1800–

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent "romantic" movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56.

.51 Martinez de la Rosa, Francisco 1789–1862.
.52 Rodriguez Rubí, Tomas 1817–
.53 Breton de los Herreros, Manuel 1796–
.59 Minor dramatists.

863 Spanish Fiction.

.2 Age of Imitation. 1369–1516.

Immense vogue of books of chivalry despite legislation till publication of Don Quijote; thereafter only one written. [First part of Quijote printed 1605.]

.21 "Books of Chivalry."
.22 **"Amadis de Gaula."**
.23 "Celestina."

.3 Golden Age. 1516–1700.

Real novel replaces old books of chivalry about 1500. "Picaresca," or "rogue" novel characteristic of this period; a result of the state of society following wars of Charles 1st and Phillip 2d, e. g. Mendoza's "Lazarillo de Tormes." For Mendoza, see 861.36.

.31 Montemayor, Jorge de 1520–1561.
.32 **Cervantes Saavedra, Miguel de** 1547–1616.
.39 Minor novelists.

.4 18th Century. 1700–1800.

.5 19th Century. 1800–

For Breton de los Herreros, see 862.53; and Rodriguez Rubí, 862.52.

.51 Larra, Mariano José de [Figaro] 1809–1837.
.52 Romanos, Ramon Mesonero de 1803–
.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1871.
.59 Minor writers.

864 Spanish Essays.

865 Spanish Oratory.

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrained. Sacred eloquence less employed by Spanish church than by French or English. Gongorism or "bad taste" conquers here as elsewhere.

.1 Early Spanish. –1369.

.2 Age of Imitation. 1369–1516.

.3 Golden Age. 1516–1700.

For Luis de Leon, see 861.33; and Luis de Granada, 868.32.

.4 18th Century. 1700–1800.

For Jovellanos, see 868.42; and Valdés, 861.46.

.5 19th Century. 1800–

.51 Olozaga, Salustiano de 1803–1873.
.52 Castelar, Emilio 1832–

866 Spanish Letters.

.3 Golden Age. 1516–1700.

Naturalness of old times changed with majestic court and rigid etiquette of Charles 5th.
For Santa Teresa, see 868.33.

.31 Avila, Juan de 1502–1569.
.32 Perez, Antonio 1540–1611.
.39 Minor writers.

867 Spanish Satire.

.1 Early Spanish. –1369.

Ruiz, Juan (Arcipreste de Hita) 1350.

.2 Age of Imitation. 1369–1516.

"Coplas de Mingo Revulgo."

.3 Golden Age. 1516–1700.

Quevedo Villegas, Francisco Gomez de 1580–1645.

.4 18th Century. 1700–1800.

For Cadalso, see 861.42; and Moratin the younger, 862.42.

.41 Jorge Pitillas (a pseudonym).
.42 Isla, José Francisco de (el Padre) 1703–1781.

868 Spanish miscellany.

.1 Early Spanish. –1369.

.11 Alfonso X., El Sábio 1221–1284.
.12 Sancho El Bravo (IV. of Castile) 1258–1295.
.13 Manuel, Juan 1282–1347.
.14 Alfonso XI. 1310–1350.
.19 Minor writers.

.2 Age of Imitations. 1369–1516.

General and special histories, books of travel, works called forth by Boccacio's "Corvaccio," etc.

.3 Golden Age. 1516–1700.

Didactic prose. Considerable development, though less than poetry, owing in a great measure to restraints political and religious. "Bad Taste" manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representatives of Mystic School.
For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3.

.31 Mariana, Juan de, Founder of Spanish History 1536–1623.
.32 Granada, Luis de 1504–1588.
.33 Teresa de Jesús, Santa 1513–1582.
.34 Cruz, San Juan de la 1542–1591.
.35 Rivadeneyra, Pedro de 1527–1611.
.36 Saavedra Fajardo, Diego de 1584–1648.
.39 Minor Writers.

.4 18th Century. 1700–1800.

Under Carlos 3d (1759–'88) scientific studies took a fresh start, due largely to Feijóo who attempted intellectual emancipation of Spain. Prose advances under French influence — Gallicisms introduced.

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764.
.42 Jovellanos, Gaspar Melchor de 1744–1811.
.49 Minor writers.

.5 19th Century. 1800–

For Hartzembusch, J. E., see 861.56.

.51 Gayangos, Pascual de 1809–
.52 Rios, José Amador de los 1818–1878.
.53 Milá y Fontanals, Manuel 1818–
.59 Minor writers.

869 Portuguese Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

870 Latin Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

.1 Lucretius Carus, Titus.
.2 Ovid. (Publius Ovidius Naso.)
.3 Hyginus, Caius Julius.
.4 Faliscus, Gratius.
.5 Manilius, Marcus.
.6 Phædrus.
.7 Lucilius Junior. "Ætna."
.8

872 Latin Drama.

.1 Andronicus, Livius.
.2 Nævius, Cnæus.
.3 Plautus, Titus Maccius.
.4 Ennius.
.5 Terence. (Publius Terentius Afer.)
.6 Seneca, Lucius Annæus.
.7

873 Latin Epic Poetry.

.1 Virgil. (Publius Virgilius Maro.)
.2 Lucanus, Marcus Annæus.
.3 Flaccus, Caius Valerius.
.4 Silius Italicus, Caius.
.5 Statius, Publius Papinius.
.6

874 Latin Lyric Poetry.

.1 Catullus, Tibullus and Propertius.
.2 Catullus, Valerius.
.3 Tibullus, Albius.
.4 Propertius, Sextus Aurelius.
.5 Horace. (Quintus Horatius Flaccus.)
.6 Calpurnius Siculus.
.7

875 Latin Oratory.

.1 Cicero, Marcus Tullius. Complete Works.
For Cicero's Letters see 876.1.
.2 Orations.
.3 Rhetorical Works.
.4 Philosophical Works.
.5 Messala Corvinus, Marcus Valerius.
.6 Quintilian. (Marcus Fabius Quintilianus.)
.7

876 Latin Letters.

.1 Cicero, Marcus Tullius.
.2 Pliny. (Caius Plinius Cæcilius Secundus.)
.3 Fronto, Marcus Cornelius.
.4

877 Latin Satire and Humor.

.1 Lucilius, Caius.
.2 Cato, Valerius.
.3 Horace. See 874.5.
.4 Persius Flaccus, Aulus.
.5 Petronius Arbiter, Caius.
.6 Martial. (Marcus Valerius Martialis.)
.7 Juvenal. (Decimus Junius Juvenalis.)

878 Latin Miscellany.

.1 Cæsar, Caius Julius.
.2 Sallust. (Caius Sallustius Crispus.)
.3 Nepos, Cornelius.
.4 Livy. (Titus Livius Patavinus.)
.5 Seneca, Lucius Annæus.
.6 Tacitus, Caius Cornelius.
.7 Suetonius Tranquillus, Caius.
.8 Curtius Rufus, Quintus.
.9 Minor Writers.

879 Mediæval and Modern Latin.

Subdivided like 820. .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

880 Greek Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on Greek Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Greek Literature.

881 Greek Poetry in General.

See Dramatic, Epic, and Lyric, below.

.1 Theognis.
.2 Aratus.
.3 Lycophron.
.4 Babrius.

882 Greek Dramatic Poetry.

.1 Æschylus.
.2 Sophocles.
.3 Euripides.
.4 Aristophanes.
.5 Epicharmus.
.6 Menander.

883 Greek Epic Poetry.

.1 Homer.
.2 Hesiod.
.3 Apollonius Rhodius.
.4 Oppian.
.5 "Orphic Poems."

884 Greek Lyric Poetry.

.1 Tyrtæus.
.2 Sappho.
.3 Anacreon.
.4 Simonides of Ceos.
.5 Pindar.
.6 Theocritus.
.7 Bion.
.8 Callimachus.
.9 Minor Greek Lyric Poets

885 Greek Oratory.

.1 Andocides.
.2 Lysias.
.3 Isæus.
.4 Isocrates.
.5 Æschines.
.6 Demosthenes.
.7 Hyperides.
.8 Lycurgus.
.9 Minor Greek Orators.

886 Greek Letters.

.1 Themistocles.
.2 Alciphron.
.3 Phalaris.

887 Greek Satire and Humor.

For Comedies of Aristophanes see 882.4.

.1 Archilochus.
.2 Simonides of Samos.
.3 Hipponax.

888 Greek Miscellany.

.1 Herodotus.
.2 Thucydides.
.3 Xenophon.
.4 Plato. See 184, Platonic Philosophy.
.5 Aristotle. See 185, Aristotelian Philosophy.
Or if preferred the works of Plato and Aristotle may be put in 184 and 185.
.6 Æsop.
.7 Lucian.
.8 Plutarch.
.9 Minor Writers.

889 Medieval and Modern Greek.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

890 Literature of Minor Languages.

Subdivided like 490, Philology of Minor Languages. If wished the .1, Poetry; .2, Drama, etc., numbers can be used after the language number. e. g., Russian Drama is 891.72; Hebrew Poetry 892.41; Bengali Poetry 891.441.

History.

900 History in General.

901–909 all have *History in General* as their subject, but it is treated in these various *forms*. A periodical on English History goes with 942, not 905, which is only for periodicals on History in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

901 Philosophy, Theories, etc.

902 Compends, Chronologies, Charts, Outlines.

For Chronology as a Science, see 529.

903 Dictionaries, Cyclopedias, etc.

904 Essays, Lectures, Addresses.

905 Periodicals, Historical Magazines.

906 Societies, Transactions, etc.

907 Education, Methods of Teaching, etc. See also 370.

908 Polygraphy, Collected Works, Extracts, etc.

909 Universal Histories.

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.
For map projection, see 526.9. See also 310 Statistics, 390 Customs and Costumes.
For Directories, Guide Books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914–919.

.1
.2 Traveler's Manuals, Guidebooks.
.3 Dictionaries, Gazetteers.
.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.
.5 Periodicals.
.6 Societies.
.7 Study and Teaching of Geography. School Map Drawing.
.8 Collections of Travels, etc.
.9 History of Geography, Travels, Explorations, etc.

911 Historical. Growth and Changes in Political Divisions, etc. Subdivided like 930–999.

912 Maps, Atlases, Plans of Cities, etc. Subdivided like 930–999.

913 Antiquities, Archæology, of Special Countries.

Subdivided like 930–999.

914–919 is subdivided like 940–999. Whenever these main geographical headings occur they may be subdivided exactly like History. The full list of sub-heads is printed only under 940–999.

914 Europe.

915 Asia.

916 Africa.

917 North America.

918 South America.

919 Oceanica and Polar Regions.

920 Biography.

Including Autobiography, Diaries, Personal Narratives, Eulogies, Biographical Dictionaries, &c. All Biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i. e., the biography of science is divided like science itself, see 500–599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927 92; of the inventor of hard rubber, 926.75, &c. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.

Another plan is to scatter biography with the other books, leaving 920–928 blank, or using them only for general works, cross references, &c. This simply omits the first two figures 92, and the life of a botanist is 580 instead of 925.8, and goes with the botanical books.

General and Collective by Localities.

Including only collected lives too general to go under any subject heading.

.01 Universal.
.02 Partial Collections not limited to any special country or subject.
.03 Ancient.
.04 Of Europe.
.05 „ Asia.
.06 „ Africa.
.07 „ North America.
.08 „ South America.
.09 „ Oceanica.

Individual and Collective by Subjects.

920.1 Bibliographers.
.2 Librarians.
.3 Encyclopædists.
.4 Publishers.
.5 Journalists.
.6 Academicians.
.7 Women. Collected only. Individual lives go with subject.
.8 Eccentrics, Cranks, Fools, Insane, &c.
.9 Other special classes not included in 921–928, e. g., Phrenologists, Somnambulists, Mind Readers, Magicians, &c.

921 Of Philosophy.

.1 American.
.2 English. Scotch.
.3 German.
.4 French.
.5 Italian.
.6 Spanish.
.7 Slavic.
.8 Scandinavian and Other Modern.
.9 Ancient. Oriental. Patristic. Scholastic. See 180–189.

922 Of Theology. Clergy, Missionaries, Preachers.

.1 Primitive (Apostles, Fathers, &c.), Oriental, Greek, Russian.
.2 Roman Catholic. Popes, Cardinals, &c.
.3 Anglican and Protestant Episcopal.
.4 Continental Protestant. Lutheran, Huguenot.
.5 Presbyterian and Congregational.
.6 Baptist.
.7 Methodist.
.8 Unitarian, Universalist, and other.
.9 Non-Christian.

923 Of Sociology.

.1 Chief Rulers. Kings, Queens, Emperors, Presidents.
.2 Political Science. Legislative Dept., Governors, Politicians, Statesmen, Nobles, &c.
.3 Political Economy. Bankers, Capitalists, Financiers.
.4 Law. Judiciary Dept., Lawyers, Judges, Criminals.
.5 Administration. Army and Navy, Civil Service.
.6 Associations and Institutions. Philanthropists, &c.
.7 Education. Teachers, School Officers, Educators.
.8 Commerce and Communication. R. R. Officials, Merchants, &c.
.9 Manners and Customs. Society, Travelers, Discovery.

Subdivide 923.1–923.9 (and wherever else wished) by 5th and 6th figures for nationality, as in 930–999; e. g., the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551.

924 Of Philology.

925 „ Science.

926 „ Useful Arts.

927 „ Fine Arts.

928 „ Literature.

In adding figures for the subdivisions of Literature (as in 810–899) Historians are put with miscellaneous authors as 8, i. e., Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet.

929 Genealogy and Heraldry.

.1 Genealogies.
.2 Families.
.3 Registers of Births, Baptisms, Marriages, Deaths.
.4 Names of Persons and Places.
.5 Epitaphs.
.6 Heraldry.
.7 Peerages, Precedence, Titles of Honor.
.8 Coats of Arms, Crests.
.9 Flags.

930 Ancient History.

931 China.

932 Egypt.

933 Judea.

934 India.

935 Medo-Persia.

.1 Chaldæa.
.2 Assyria.
.3 Media.
.4 Babylonia.
.5 Persia.
.6 Parthia.
.7 New Persian or Sassanian.
.8 Mesopotamia.
.9 Susiana.

936 Kelts.

937 Rome. Italy.

Period Divisions.

.01	Kings.	753–509	B. C.
.02	Republic.	509– 31	„
.03	Conquest of Italy.	509–264	„
.04	Punic Wars.	264–146	„
.05	Civil Strife.	146– 31	„
.06	Empire.	31 B. C.–476	A. D
.07	Constitutional.	31 „ –284	„
	Augustus—Illyrian Emperors.		
.08	Absolute.	284–476	„
.09	Division of Empire.	395–476	„
	Barbarian Conquests and Fall of Western Empire.		

Geographical Divisions.

.1 Liguria.
.2 Gallia Cisalpina.
.3 Venetia. Istria.
.4 Umbria. Picenum. Sabini, etc.
.5 Etruria.
.6 Latium, Rome.
.7 Southern Italy: Campania, Samnium, Apulia, etc.
.8 Sicily, Syracuse.
.9 Sardinia. Corsica.

938 Greece.

Period Divisions.

.01	Mythical Age.	To 776 B. C.
.02	Growth of States.	775–500 „
.03	Persian Wars. Union of Greece.	500–479 „
.04	Athenian Supremacy.	479–431 „
.05	Peloponnesian War.	431–404 „
.06	Spartan and Theban Supremacy.	404–362 „
.07	Macedonian Supremacy.	362–323 „
.08	Roman Conquest of Greece.	323–146 „
.09	Greek Subjection.	146 B. C.–323 A. D.

Byzantine Empire is put 949.5.

Geographical Divisions.

.1 **Macedonia.**

.2 **Thessaly. Epirus.**

.3 **Acarnania. Ætolia. Locris. Doris. Phocis. Ithaca.**

.4 **Bœotia. Megaris. Eubœa.**

.5 **Attica.**

.6 **Peloponnesus.**

.7 **Corinthia. Achaia.**

.8 **Elis. Arcadia. Argolis.**

.9 **Messenia. Laconia.**

939 Minor Countries.

.1 **Grecian Archipelago.**

.11, Northern Islands: Thasos, Lemnos, etc.; .12, Lesbos; .13, Chios, etc.; .14, Samos, etc.; .15, Cyclades; .16, Rhodes, etc.; .17, Carpathos; .18, Crete.

.2 **Western Asia Minor.**

.21, Mysia, Troas; .22, Lydia; .23, Ionia; .24, Caria; .25, Bithynia; .26, Phrygia; .27, Pisidia; .28, Lycia; .29, Pamphylia.

.3 **Eastern Asia Minor.**

.31, Paphlagonia; .32, Galatia; .33, Pontus; .34, Cappadocia; .35, Cilicia; .36, Commagene; .37, Cyprus.

.4 **Syria.**

.41, Upper Syria; .42, Cœle Syria; .43, Palmyrene; .44, Phœnicia, Tyre; .45, Palestine: Hittites, Philistines, etc.; .46, Edom, Moab, Bashan. etc.; .47, Arabia; .48, Arabia Petræa, Sinai.

.5 **North Western Asia.**

.51, Scythia; .52, Sarmatia Asiatica; .53, Colchis; .54, Iberia; .55, Armenia; .56, Albania.

.6 **South Central Asia.**

.61, Sogdiana; .62, Hyrcania; .63, Margiana; .64, Bactriana; .65, Ariana.

.7 **Minor African Countries.**

.71, Mauritania; .72, Numidia; .73, Africa Propria, Carthage; .74, Syrtica Regio; .75, Cyrenaica; .76, Marmarica; .77, Libya, Gætulia; .78, Æthiopia.

8 **South Eastern Europe.**

.81, Sarmatia Europa; .82, Dacia; .83, Vindelicia; .84, Rhætia; .85, Noricum; .86, Pannonia; .87, Illyria; .88, Mœsia; .89. Thrasia.

940 Europe. From the fall of Western Empire (Rome), A. D. 476.

.1 **Medieval Europe.** 476–1453.

For Byzantine Empire see 949.5.

.2 **Rise of New Nations.** 476–800.

.3 **Age of Feudalism.** 800–1100.

Charlemagne. 768–814.
Norman Conquests.

.4 **Age of Chivalry.** 1100–1453.

The Crusades. To fall of Eastern Empire (Constantinople), 1453.

For Church History see 270.

.5 **Modern Europe.** 1453——

.6 **The Renaissance Period.** 1453–1517.

Discoveries and Inventions.

.7 **Age of the Reformation.** 1517–1789.

The 30 Years' War. 1618–1648.

.8 **Napoleonic Period.** 1789–1815.

.9 **Current History.** 1815——

941 Scotland.

Period Divisions.

.01	Gaelic Period.	–1097.
.02	English Period.	1097–1314.
	Struggle for National Freedom.	
.03	Independent Kingdom.	1314–1424.
.04	The Jameses.	1424–1557.
.05	Reformation.	1557–1603.
.06	Union of Crowns and Parliaments.	1603–1707.
.07	Hanover.	1707–1837.
.08	Victoria.	1837–
.09		

Geographical Divisions.

.1 **Northern Scotland.**

.11, Shetland; .12, Orkney; .13, Caithness; .14, Sutherland; .15, Cromarty; .16, Ross; .17, Hebrides.

.2 **North Central Scotland.**

.21, Inverness; .22, Nairn; .23, Elgin; .24, Banff; .25, Aberdeen; .26, Kincardine.

.3 **South Central Scotland.**

.31, Forfar; .32, Perth; .33, Fife; .34, Kinross; .35, Clackmannan; .36, Sterling; .37, Dunbarton; .38, Argyll; .39, Bute.

.4 **Southern Scotland.**

.41, Renfrew; .42, Ayr; .43, Lanark; .44, Linlithgow, Edinburgh; .45, Haddington, Berwick; .46, Peebles, Selkirk; .47, Roxburgh; .48, Dumfries; .49, Kirkcudbright, Wigton.

941.5 Ireland.

Period Divisions.

·51	Early History.	–1086.
·52	Separate Kingdoms.	1086–1172.
	Conquest by Henry II.	
·53	Plantagenet.	1172–1399.
·54	Lancaster and York.	1399–1485.
·55	Tudors.	1485–1603.
·56	Stuarts.	1603–1691.
	Closing with Treaty of Limerick.	
·57	Hanover.	1691–1801.
	Closing with the Union.	
·58	19th Century.	1801–
·59		

Geographical Divisions.

.6 Ulster.

.61, Antrim; .62, Londonderry; .63, Donegal; .64, Tyrone; .65, Down; .66, Armagh; .67, Monaghan; .68, Fermanagh; .69, Cavan.

.7 Connaught.

.71, Leitrim; .72, Sligo; .73, Mayo; .74, Galway; .75, Roscommon.

.8 Leinster.

.81, Longford, West Meath; .82, Meath, Louth; .83, Dublin; .84, Wicklow; .85, Kildare; .86, King's Co.; .87, Queen's Co.; .88, Carlow, Wexford; .89, Kilkenny.

.9 Munster.

.91, Waterford; .92, Tipperary; .93, Clare; .94, Limerick; .95, Cork; .96, Kerry.

942 England.

Period Divisions.

For specially minute work the 6th figure printed for each sovereign may be used; e. g., Henry VII is 942.051.

.01 Anglo-Saxon. B. C. 55–A. D. 1066.

Prehistoric, Roman, British, Danish.

.02 Norman. 1066–1154.

1, William I. 1066–1087; 2, William II. 1087–1100; 3, Henry I. 1100–1135; 4, Stephen 1135–1154.

.03 Plantagenet. 1154–1399.

1, Henry II. 1154–1189; 2, Richard I. 1189–1199; 3, John 1199–1216; 4, Henry III. 1216–1272; 5, Edward I. 1272–1307; 6, Edward II. 1307–1327; 7, Edward III. 1327–1377; 8, Richard II. 1377–1399.

942.04 Lancaster and York. 1400–1485.

1, Henry IV. 1399–1413; 2, Henry V. 1413–1422; 3, Henry VI. 1422–1461; 4, Edward IV. 1461–1483; 5, Edward V. 1483; 6, Richard III. 1483–1485.

.05 Tudor. 1485–1603.

1, Henry VII. 1485–1509; 2, Henry VIII. 1509–1547; 3, Edward VI. 1547–1553; 4, Mary 1553–1558; 5, Elizabeth 1558–1603.

.06 Stuart. 1603–1714.

1, James I. 1603–1625; 2, Charles I. 1625–1649; 3, Commonwealth 1649–1653; 4, Oliver Cromwell 1653–1658; 5, Richard Cromwell 1658–1659; 6, Charles II. 1660–1685; 7, James II. 1685–1688; 8, William III. 1689-1702; 9, Anne 1702–1714.

.07 Hanover. 1714–1837.

1, George I. 1714–1727; 2, George II. 1727–1760; 3, George III. 1760–1820; 4, George IV. 1820-1830; 5, William IV. 1830–1837.

.08 Victoria. 1837–

Geographical Divisions.

.1 Middlesex. London.

.2 Southeastern.

.21, Surrey; .23, Kent; .25, Sussex; .27, Hants; .28, Isle of Wight; .29, Berks.

.3 Southwestern.

.31, Wilts; .33, Dorset; .34, Channel Islands; .35, Devon; .37, Cornwall; .38, Somerset.

.4 West Midland.

.41, Gloucester; .43, Monmouth; .44, Hereford; .45, Salop; .46, Stafford; .47, Worcester; .48, Warwick.

.5 North and South Midland.

.51, Derby; .52, Notts; .53, Lincoln; .54, Leicester, Rutland; .55, Northampton; .56, Huntington, Bedford; .57, Oxford, Buckingham; .58, Hertford; .59, Cambridge.

.6 Eastern.

.61, Norfolk; .64, Suffolk; .67, Essex.

.7 Northwestern and Yorkshire.

.71, Cheshire; .72, Lancashire; .74, Yorkshire.

.8 Northern.

.81, Durham; .82, Northumberland; .85, Cumberland; .88, Westmoreland; .89, Isle of Man.

.9 Wales.

.91, Anglesey; .92, Carnarvon, Merioneth; .93, Denbigh, Flint; .94, Montgomery; .95, Cardigan; .96, Radnor, Brecknock; .97, Glamorgan; .98, Carmarthen; .99, Pembroke.

943 Germany and Austria.

Period Divisions.

.01 Formative Period.
Wars with Rome. Charlemagne 800–814; Louis I 814–840; Lothaire I 840–843.

.02 Empire before the Reformation.
1, **Carolingian,** 843–911: Louis II 843–876; Charles II 876–877; Charles III 877–887; Arnulf 887–899; Louis III 900–911.
2, House of Franconia: Conrad I 911–918; House of **Saxony,** 919–1024: Henry I 919–936; Otto I 936–973; Otto II 973–983; Otto III 983–1002; Henry II 1002–1024.
3, House of **Franconia,** 1024–1125: Conrad II 1024–1039; Henry III 1039–1056; Henry IV 1056–1106; Henry V 1106–1125; House of Saxony: Lothaire II 1125–1137.
4, House of **Hohenstaufen,** 1137–1197: Conrad III 1138–1152; Frederick I 1152–1190; Henry VI 1190–1197.
5, House of **Hohenstaufen** and **Interregnum,** 1198–1272: Philip 1198–1208; Otto IV 1208–1212; Frederick II 1212–1250; Conrad IV 1250–1254; William of Holland 1254–1256; Richard of Cornwall 1256–1272.
6, Houses of **Hapsburg, Luxemburg,** etc., 1273–1378: Rodolph I 1273–1291; Adolphus 1291–1298; Albert I 1298–1308; Henry VII 1308–1313; Louis IV 1313–1347; Charles IV 1347–1378.
7, **Interregnum,** 1378–1437: Wenceslaus 1378–1400; Rupert 1400–1410; Sigismund 1410–1437
8, Albert II 1438–1439; Frederick III 1440–1493.
9, Maximilian I 1493–1519.

.03 Reformation to 1618. 1517–1618.
1, Charles V 1519–1556; 2, Ferdinand I 1556–1564; 3, Maximilian II 1564–1576; 4, Rodolph II 1576–1612; 5, Matthias 1612–1619.

.04 Disintegration. 1618–1705.
1, Thirty Years' War 1618–1648; 2, Ferdinand II 1619–1637; 3, Ferdinand III 1637–1657; 4, Leopold I 1658–1705.

.05 Rise of Prussia. 1705–1789.
1, Joseph I 1705–1711; 2, Charles VI 1711–1740; 3, 1740–1742; 4, Charles VII 1742–1745; 5, Francis I 1745–1765; *6, Seven Years' War 1756–1763;* 7, Joseph II 1765–1790.

.06 Napoleonic Wars. 1789–1815.
Leopold II 1790–1792; Francis II 1792–1806; Confederation of the Rhine 1806–1815.

.07 Reorganization. 1815–1866.

.08 New German Empire. 1866–
1, North German Confederation 1866–1871; 2, Franco-German War 1870–1871; 3, William I 1871.

Geographical Divisions of Germany and Austria.

943.1 Prussia and Northern Germany.

943 .11, East Prussia; .12, West Prussia; .13, Posen; .14, Silesia; .15, Brandenburg; .16, Pomerania; .17, Mecklenburg and Lubeck; .18, Prussian Saxony; .19, Anhalt.

.2 Central Germany.

.21, Saxony; .22, **Thuringia;** .23, Saxe-Weimar; .24, Saxe-Altenburg; .25, Saxe-Gotha-Coburg; .26, Saxe-Meiningen; .27, Schwartzburg; .28, Reuss.

943.3 Bavaria.

.31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Suabia.

.4 Southern Germany.

.41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurtemburg; .48, *Black Forest* and *Danube;* .49, Hohenzollern.

.5 Northwest Germany.

.51, Schleswig-Holstein and Hamburg; .52, Oldenburg and Bremen; .53, Hanover; .54, Brunswick; .55, Lippe; .56, Westphalia; 57, Waldeck; .58, Hesse-Nassau.

943.6 Austria.

.61, Lower Austria; .62, Upper Austria; .63, Salzburg; .64, Tyrol; 65, Styria; .66, Carinthia; 67, Carniola; .68, Istria; .69, Dalmatia.

.7 Bohemia, etc.

.71, Bohemia; .72, Moravia; 73, Silesia; .74, Galicia; .75, Bukowina.

.8 Poland.

.9 Hungary, etc.

.81, Hungary; .82, Transylvania; .83, Slavonia; .84, Croatia, Fiume; .85 Bosnia; 86, Herzegovina.

944 France.

Period Divisions.

.01 Early History. –987.
Ancient Celts –59 B. C.; Roman Dominion 59 B. C.–418 A. D.; Merovingian Dynasty 428–752; Carolingian 752–987.

.02 Capet and Valois. 987–1589.
House of **Capet.**
1, Hugh Capet 987–996; Robert II 996–1031; Henry I 1031–1060.
2, Philip I 1060–1108; Louis VI 1108–1147; Louis VII 1147–1180.
3, Philip II 1180–1223; Louis VIII 1223–1226; Louis IX 1226–1270.
4, Philip III 1270–1285; Philip IV 1285–1314; Louis X 1314–1316; John I 1316; Philip V 1316–1322; Charles IV 1322–1328.
House of **Valois.**
5, Philip VI 1328–1350; John II 1350–1364; Charles V 1364–1380.
6, Charles VI 1380–1422; Charles VII 1422–1461.
7, Louis XI, 1461–1483; Charles VIII 1483–1498; Louis XII 1498–1515.
House of **Angoulême.**
8, Francis I 1515–1547; Henry II 1547–1559.
9, Francis II 1559–1560; Charles IX 1560–1574; Henry III 1574–1589.

.03 **Bourbon.** 1589–1789
1, Henry IV 1589–1610; 2, Louis XIII 1610–1643; 3, Louis XIV 1643–1715; 4, Louis XV 1715–1774; 5, Louis XVI 1774–1789.

.04 Revolution. 1789–1804.
1, National Assembly 1789–1792; 2, First Republic 1792–1799; 3, Convention, 1792–1795; 4, Reign of Terror; May 1793–July 1794; 5, Directory 1795–1799; 6, First Consulate, Napoleon, 1799–1804.

.05 First Empire. 1804–1815.
Napoleon I 1804–1814; Louis XVIII 1814–1815; The Hundred Days March 20–June 29, 1815.

944.06 Restoration. 1815–1848.
1, Louis XVIII 1815–1824; 2, Charles X 1824–1830; 3, Louis Philippe 1830–1848.

.07 Second Republic and Second Empire. 1848–1870.
Revolution of 1848; Second Republic, Louis Napoleon, Pres., 1848–1852, Napoleon III 1852–1870.

.08 Third Republic. 1870–
Franco-German War, Government of National Defence 1870–1871; National Assembly 1871; Presidency of Thiers 1871–1873; McMahon 1873-1879; Grévy 1879–

Geographical Divisions of France.

944.1 **Brittany. Maine. Anjou.**
.11, Finistère; .12, Côtes du Nord; .13, Morbihan; 14, Loire Inférieure; 15, Ille et Vilaine; 16, **Maine**: Mayenne; 17, Sarthe; 18, **Anjou**: Maine et Loire.

.2 **Normandy. Picardy.**
.21, Manche; .22, Calvados; .23, Orne; 24, Eure; 25, Seine Inférieure; 26, **Picardy**: Somme; 27, **Artois**: Pas de Calais; 28, Nord.

.3 **Champagne. Isle de France. Lorraine.**
.31, Ardennes; .32, Marne; .33, Aube, Haute Marne; .34, **Isle de France**: Aisne; .35, Oise; 36, Seine et Oise, Paris; .37, Seine et Marne; .38, **Lorraine**: Meuse, Moselle; 39, Meurtha, Vosges.

.4 **Burgundy. Franche Comte. Savoy.**
.41, Yonne; .42, Côte d'Or; .43, Saône et Loire; .44, Ain; .45, **Franche Comte**: Haute Saône, Belfort; .46, Doubs; .47, Jura; .48, **Savoy**: Savoie; .49, Haute Savoie.

.5 **Orleans, etc. Auvergne.**
.51, Eure et Loir; .52, Loiret; .53, Loir et Cher; 54, **Touraine**: Indre et Loir; .55, **Berry**: Indre, Cher; .56, **Nivernais**: Nièvre; .57, **Bourbonnais**: Allier; .58, **Lyonnais**: Loire, Rhône; .59, **Auvergne**: Puy de Dôme, Cantal.

.6 **Poitou. Limousin.**
.61, Vendée; .62, Deux Sèvres; .63, Vienne; .64, Charente Inférieure; .65, Charente; .66, **Limousin**: Haute Vienne; .67, Corrèze; .68, **Marche**: Creuse.

.7 **Guienne. Gascony.**
.71, Gironde; .72, Dordogne; .73, Lot; .74, Aveyron; .75, Tarn et Garonne; .76, Lot et Garonne; .77, **Gascony**: Landes, Gers; .78, Hautes Pyrénées; .79, **Bearn**: Basses Pyrénées.

.8 **Languedoc.**
.81, Haute Loire, Lozère; .82, Ardèche; .83, Gard; .84, Hérault; .85, Tarn; .86, Haute Garonne; .87, Aude; .88, **Foix**: Ariége; .89, Pyrénées Orientales.

.9 **Provence. Dauphiny.**
.91, Bouches du Rhône; .92, Vaucluse; .93, Var; .94, Alpes Maritimes; .95, Basses Alpes; 96, **Dauphiny**; 97, Hautes Alpes; 98, Drôme; 99, Isère.

945 Italy.

Period Divisions.

.01 Gothic and Lombard Kingdoms. 476–774.
.02 Frankish Emperors. 774–961.
.03 German Emperors. 962–1122.
Hildebrand and Papal Supremacy.
.04 Age of the Communes. 1100–1300.
Free Cities. Strifes of Guelphs and Ghibelines.
.05 Age of the Despots. 1300–1492.
.06 Age of Invasions. 1492–1527.
.07 Spanish-Austrian Ascendancy. 1527–1796.
.08 Struggle for Independence. 1796–1870.
.09 United Italy. 1870–
Victor Emanuel, Cavour, Garibaldi.

Geographical Divisions of Italy.

945.1 **Piedmont and Liguria.**
.2 **Lombardy.**
.3 **Venetia.**
.4 **Emilia.**
.5 **Tuscany.**
.6 **Marches, Umbria and Latium.**
.7 **Naples.**
.71, Abruzzo and Molise; .72, Campania; .73, Napoli; .74, Salerno; .75, Apulia; .76, Lecce, Terra di Otranto; .77, Basilicata, Potenza; .78, Calabria; 79, Reggio di Calabria.
.8 **Sicily. Malta.**
.9 **Sardinia and Corsica.**

946 Spain.

Period Divisions.

.01 Early History. Roman Dominion. Gothic Kingdom. —— 711.
.02 Moorish Kingdom. 711–1479.
.03 Ferdinand V and Isabella. 1479–1516
Discovery.
Expulsion of the Moors.
.04 Charles I and Philip II. 1516–1598.
Inquisition. War with the Netherlands. Armada. Charles I (V of Germany) 1516–1556; Philip II 1556–1598.
.05 Philip III.—Charles IV. 1598–1808.
Degeneration. 1, Philip III 1598–1621; 2, Philip IV 1621–1665; 3, Charles II 1665–1700; 4, House of **Bourbon**: 5, Philip V 1700–1746; 6, Ferdinand VI 1746–1759; 7, Charles III 1759–1788; 8, Charles IV 1788–1808.
.06 Peninsular War. 1808–1814.
Joseph Bonaparte.
.07 Bourbon Restoration. 1814–1868.
Attempts at Reform.
Ferdinand VII 1814–1833; Isabella II. 1833–1868.
.08 Later 19th Century. 1868 ——
Revolution of 1868–1870; Amadeus 1870–1873; Republic 1873–1875; Alfonso XII 1875——.

Geographical Divisions of Spain.

946.1 Galicia. Asturias.
.2 Leon. Estramadura.
.3 Old Castile.
.4 New Castile.
.5 Aragon.
.6 Basque Provinces.
.7 Catalonia. Balearic Isles. Valencia. Murcia.
.8 Andalusia. Canary Isles.
.9 Portugal.
.98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

.01	Primitive Russia.	—— 862.
.02	Varangian Kingdom. Conversion to Christianity.	862–1237.
.03	Mongolian Invasion. Civil Wars.	1237–1462.
.04	Ivan III—Ivan V. Origin of Serfdom.	1462–1689.
.05	Peter the Great. Wars with Sweden and Turkey.	1689–1725.
.06	Catharine I—Catharine II. Partition of Poland.	1725–1796.
.07	Paul I—Nicholas I. War with Napoleon. Insurrection of Poland. Crimean War.	1796–1855.
.08	Alexander II— Emancipation of the Serfs. Turko-Russian War.	1855 ——

Geographical Divisions of Russia.

947.1 Finland. Lapland.
.2 Northern Great Russia.
Archangel; Vologda; Olonetz; Novgorod.
.3 Southern Great Russia.
.4 Baltic Provinces.
Courland; Livonia; Esthonia; St. Petersburg.
.5 Russian Poland.
.6 West Russia.
.7 Little Russia. South Russia.
.8 East Russia.
.9 Caucasia.

948 Norway, Sweden, and Denmark.

Period Divisions.

.01	Legendary Period.	—— 800.
.02	Consolidation. Migration. Introduction of Christianity. Discovery of Iceland, Greenland, and America. Conquest of Britain and Normandy.	801–1397.
.03	Union of the three kingdoms. Civilization. Foreign relations.	1397–1523.
.04	The Reformation. Edict of Toleration, 1527. 30 Years' War. Gustavus Adolphus.	1523–1648.
.05	Decline. Wars, vs. Denmark, Poland, Russia. Political changes.	1643–1792.
.06	Napoleonic Wars. Union of Norway and Sweden, 1814.	1792–1818.
.07	Charles XIV. (Bernadotte). Peace. Internal reform.	1818 ——.
.08		

Geographical Divisions.

.1 Norway.
.2 Christiania.
.3 Christiansand. Bergen.
.4 Hamar. Throndhjem. Tromso.
.5 Sweden.
.6 Gothland.
.7 Svealand.
.8 Norrland.
.9 Denmark.

949 Minor Countries of Europe.

.1 Iceland. Faroe Islands.
01, Commonwealth, –1264; 02, Mediævalism, 1264–1551; 03, Absolute Rule, Decay, 1551–1848; 04, Modern Iceland, 1848 ——.

.2 Netherlands.
01, Early History, –1477; 02, Austrian Dominion, 1477–1566; 03, Wars for Independence, 1566–1648; 04, Age of Prosperity, 1648–1795; 05, Revolutionary, 1795–1830; 06, 19th Century, 1830 ——.

.3 Belgium.

.4 Switzerland.
01, Early History, –1300; 02, Struggle for Independence, 1300–1499; 03. Reformation, 1499–1648; 04, Period of Tranquillity, 1648–1789; 05, Period of Revolution, 1789–1815; 06, 19th Century, 1815 ——.

949.5 **Byzantine Empire and Modern Greece.**

01, Greek Revival. 323–716.
Constantine the Great — Theodosius III.
02, Byzantine Prosperity. 716–1057.
Leo III — Michael VI.
03, Byzantine Decline. 1057–1204.
Isaac I — Latin conquest of Constantinople.
04, Greek Survival. 1204–1453.
Constantinople taken by the Turks, 1453.
05, Turkish Power. 1453–1821.
06, Greek Independence. 1821 ——.

.6 **Turkey in Europe.**

.7 **Servia. Bulgaria. Montenegro.**

.8 **Roumania: Wallachia, Moldavia.**

.9 **Islands of Grecian Archipelago.**
Divided like 939.1.

950 Asia.

951 China.

.1, N. E. China, Peking; .2, S. E. China, Canton, Hong Kong, Formosa; .3, S. W. China; .4, N. W. China; .5, Thibet; .6, East Turkestan; .7, Mongolia; .8, Manchuria; .9, Corea.

952 Japan.

953 Arabia.

.1, Sinai; .2, Hejaz, Mecca; .3, Yemen; .4, Hadramaut, Mahrah; .5, Oman; .6, Hasa; .7, Dahna; .8, Nejd; .9, Syrian Desert.

954 India.

.1, Bengal, Orissa, Assam, Bhotan; .2, Northwest Provinces, Oudh, Nepal; .3, Central Provinces; .4, Rajputana; .5, Punjab, Delhi, Lahore; .6, Cashmere; .7, Bombay, Sind, Baroda; .8, Madras, Mysore, Travancore, Ceylon; .9, Hyderabad.

955 Persia.

956 Turkey in Asia.

.1, Khodavendikyar; .2, Aidin, Smyrna; .3, Kastamuni, Angora; .4, Konieh, Adana, Cyprus; .5, Trebizond, Sivas; .6, Erzerum, Diarbekr, Karpoot; .7, Bagdad, Kurdistan; .8, Aleppo; .9, Damascus, Phœnicia, Palestine.

957 Siberia.

958 Afghanistan. Turkestan. Baluchistan.

.1, N. E. Afghanistan, Cabul; .2, South Afghanistan, Candahar; .3, N. W. Afghanistan, Herat; .4, Turkestan; .5, Kiva; .6, Bokhara; .7, Ferghana or Khokan; .8, Baluchistan.

959 Farther India.

.1, British Burmah; .2, Burmah; .3, Siam; .4, Laos; .5, Lower Siam, Malay Peninsula; .6, Cambodia; .7, French Cochin China; .8, Anam; .9, Tonkin.

960 Africa.

961 North Africa.

.1, Tunis; .2, Tripoli; .3, Fezzan.

962 Egypt.

.1, Lower Egypt, Alexandria, Cairo; .2, Middle Egypt; .3, Upper Egypt, Thebes; .4, Nubia; .5, Dongola; .6, Egyptian Soudan, Kartum; .7, Darfur; .8, Kordofan; .9, Sennaar.

963 Abyssinia.

964 Morocco.

965 Algeria.

966 North Central Africa.

.1, Sahara; .2, Soudan; .3, Senegambia; .4, Sierra Leone; .5, Upper Guinea; .6, Liberia; .7, Ashantee; .8, Dahomey; .9, Gold Coast.

967 South Central Africa.

.1, Lower Guinea; .2, Loango, Congo; .3, Angola, Benguela; .4, Interior; .5, Congo Basin; .6, Central Lake Region; .7, Somali; .8, Zanzibar; .9, Mozambique.

968 South Africa.

.1, Sofala; .2, Transvaal; .3, Zululand; .4, Natal; .5, Orange Free State; .6, Kaffraria; .7, Cape Colony; .8, West Coast; .9, Interior.

969 Madagascar. Mauritius.

970 North America.

.1, Indians, Aborigines; .2, Lives of Indians; .3, Special Tribes; .4, Special States; .5, Government Relation and Treatment; .6, Special Subjects, Character, Civilization, Agriculture, etc.

971 Canada. British America.

1 **British Columbia.**

.2 **North-West Territory.**

.21, ; .22, Athabasca; .23, Alberta; .24, Saskatchewan; .25, Assiniboia; .26, Keewatin; .27, Manitoba; .28, N. E. Territory.

.3 **Ontario.**

.4 **Quebec.**

.5 **New Brunswick.**

.6 **Nova Scotia.**

.7 **Prince Edward Island.**

.8 **Newfoundland.**

.9 **Labrador.**

972 Mexico. Central America.

Period Divisions.

.01	Ancient Civilization.	—— 1516.
	1, Toltec; 2, Chichimec; 3, Tarascan; 4, Aztec; 5, Maya.	
.02	Discovery and Spanish Rule.	1516–1810.
.03	Independence.	1810–1822.
.04	First Empire. Iturbide I. Pronunciamientos.	1822–1845.
.05	War with U. S.	1845–1848.
.06	Constitution of '57. Reform.	1848–1861.
.07	French Intervention.	1861–1867.
.08	Later History.	1867 ——

Geographical Divisions.

.1 Free Zone and Northern States.

Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango.

.2 Lower California and Islands.

.3 Central Pacific States.

Sinaloa, Jalisco, Colima, Michoacan.

.4 Interior States.

Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos.

.5 Mexico. Federal District.

.6 Southern Gulf States.

Veracruz, Tabasco, Campeche, Yucatan.

.7 Southern Pacific States.

Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas.

.8 Central America.

.81 Guatemala.
.82 British Honduras.
.83 Honduras.
.84 San Salvador.
.85 Nicaragua.
.86 Costa Rica.

.9 West Indies.

.91 Cuba.
.92 Jamaica.
.93 Santo Domingo.
.94 Hayti.
.95 Porto Rico.
.96 Bahamas.
.97 Leeward Islands.
.98 Windward Islands, Barbadoes.
.99 Bermudas.

973 United States and Territories.

Period Divisions.

.1	Discovery.	A. D. 896–1607.
	Norse, Spanish, Dutch, French, English.	
.2	Colonial.	1607–1775.
	French and Indian Wars.	
.3	Revolution and Confederation.	1775–1789.
.4	Constitution.	1789–1812.
	Federalists and Republicans.	
	Washington, 1789–1797; John Adams, 1797–1801; Jefferson, 1801–1809.	
.5	War of 1812.	1812–1845.
	Hartford Convention. 1814.	
	Nullification in South Carolina. 1832.	
	Annexation of Texas. 1845.	
	Madison, 1809–1817; Monroe, 1817–1825; John Quincy Adams, 1825–1829; Jackson, 1829–1837; Van Buren, 1837–1841; Harrison, 1841; Tyler, 1841–1845.	
.6	War with Mexico.	1845–1861.
	The Wilmot Proviso. 1846.	
	Compromise of 1850.	
	Struggle in Kansas. 1854–1859.	
	Polk, 1845–1849; Taylor, 1849–1850; Fillmore, 1850–1853; Pierce, 1853–1857; Buchanan, 1857–1861.	
.7	Civil War.	1861–1865.
	Abolition of Slavery.	
	Lincoln, 1861–1865.	
.8	Later 19th Century.	1865 ——.
	Reconstruction. Civil Service Reform.	
	Johnson, 1865–1869; Grant, 1869–1877; Hayes, 1877–1881; Garfield, 1881; Arthur, 1881–1885; Cleveland, 1885 ——.	

974 North-Eastern or North Atlantic. New England.

.1 Maine.

.2 New Hampshire.

.3 Vermont.

.4 Massachusetts.

.41 Berkshire.
.42 Franklin. Hampshire. Hampden.
.43 Worcester.
.44 Middlesex.
.45 Essex.
.46 Suffolk. *Boston.*
.47 Norfolk.
.48 Plymouth. Bristol.
.49 Barnstable. Dukes. Nantucket.

.5 Rhode Island.

.6 Connecticut.

974.7 **New York.**

.71 New York City.

.72 Vicinity of New York City.

1, Long Island; 2, Kings Co.; 3, *Brooklyn;* 4, Queens Co.; 5, Suffolk Co.; 6, Richmond Co., Staten Island; 7, Westchester Co.; 8, Rockland Co.

.73 South-East Counties.

1, Orange, *West Point;* 2, Putnam; 3, Dutchess; 4, Ulster; 5, Sullivan; 6, Delaware; 7, Green; 8, *Catskill Mts.;* 9, Columbia.

.74 Middle East Counties.

1, Rensselaer, *Troy;* 2, Albany; 3, *Albany City;* 4, Schenectady; 5, Schoharie; 6, Montgomery; 7, Fulton; 8, Saratoga; 9, Washington.

.75 Northern Counties.

1, Warren, *Lake George;* 2, Hamilton; 3, Essex, *Adirondacks;* 4, Clinton; 5, Franklin; 6, St. Lawrence; 7, Jefferson; 8, *The Thousand Islands;* 9, Lewis.

.76 North Central Counties.

1, Herkimer; 2, Oneida; 3, *Utica;* 4, Madison; 5, Onondaga; 6, *Syracuse;* 7, Oswego; 8, Cayuga; 9, Seneca.

.77 South Central Counties.

1, Tompkins; 2, Cortland; 3, Chenango; 4, Otsego; 5, Broome; 6, *Binghamton;* 7, Tioga; 8, Chemung; 9, *Elmira.*

.78 West Central Counties.

1, Schuyler; 2, Yates; 3, Steuben; 4, Alleghany; 5, Livingston; 6, Ontario; 7, Wayne; 8, Monroe; 9, *Rochester.*

.79 Western Counties.

1, Orleans; 2, Genesee; 3, Wyoming; 4, Cattaraugus; 5, Chautauqua; 6, Erie; 7, *Buffalo;* 8, Niagara; 9, *Niagara Falls.*

.8 **Pennsylvania.**

.9 **New Jersey.**

975 South-Eastern or South Atlantic.

Including general works on "the South."

.1 **Delaware.**

.2 **Maryland.**

.3 **District of Columbia.**

.4 **West Virginia.**

.5 **Virginia.**

.6 **North Carolina.**

.7 **South Carolina.**

.8 **Georgia.**

.9 **Florida.**

976 South Central or Gulf.

.1 **Alabama.**

.2 **Mississippi.**

.3 **Louisiana.**

.4 **Texas.**

.5

.6 **Indian Territory.**

.7 **Arkansas.**

.8 **Tennessee.**

.9 **Kentucky.**

977 North Central or Lake.

.1 **Ohio.**

.2 **Indiana.**

.3 **Illinois.**

.4 **Michigan.**

.5 **Wisconsin.**

.6 **Minnesota.**

.7 **Iowa.**

.8 **Missouri.**

.9

978 Western or Mountain.

.1 **Kansas.**

.2 **Nebraska.**

.3 **Dakota.**

.4

.5

.6 **Montana.**

.7 **Wyoming.**

.8 **Colorado.**

.9 **New Mexico.**

979 Pacific.

.1 **Arizona.**

.2 **Utah.**

.3 **Nevada.**

.4 **California.**

.5 **Oregon.**

.6 **Idaho.**

.7 **Washington.**

.8 **Alaska.**

980 South America.

981 Brazil.

982 Argentine Republic. Patagonia.

983 Chili.

984 Bolivia.

985 Peru.

986 U. S. of Colombia. New Grenada. Ecuador.

987 Venezuela.

988 Guiana.

989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.

991 Malaysia.

.1, Borneo; .2, Celebes; .3, Moluccas or Spice Islands; .4, Philippine Islands.

992 Sunda.

.1, Sumatra; .2, Java.

993 Australasia.

.1, New Zealand; .2, New Caledonia; .3, Loyalty Islands; .4, New Hebrides; .5, Solomon Islands; .6, New Britain, New Ireland; .7, Admiralty Islands.

994 Australia.

.1, West Australia; .2, South Australia; .3, Queensland; .4, New South Wales; .5, Victoria; .6, Tasmania.

995 New Guinea.

996 Polynesia.

.1, Fiji, Friendly and Navigator's Islands; .2, Society, Austral and Cook's Islands; .3, Marquesas Islands and Low Archipelago; .4, Minor Polynesian Islands; .5, **Micronesia**; .6, Caroline and Pelew Islands; .7, Ladrone Islands; .8, Marshall and Gilbert Islands; .9, Hawaii.

997 Isolated Islands.

998 Arctic Regions.

999 Antarctic Regions.

RELATIVE SUBJECT INDEX.

RELATIVE SUBJECT INDEX.

NOTE TO USERS.

THE Index is a single alphabet. After each subject is its class number, referring to the preceding tables of classification. There is no number above 999. Look for decimals in regular arithmetical order; e.g., 783.29, Processional music, comes just before 783.3 in the decimal subdivisions of 783 and before 784.

The Index is not a gazeteer or biographical dictionary, and gives only names of places and people used as headings in the Tables. The same is true of names of plants, minerals, etc. To find to what group any individual belongs, consult the proper reference book.

To save swelling the Index by constant repetitions of long lists of subdivisions under each country, language, etc., three general notes and tables are prefixed and are referred to from all such topics in the Index.

Table 1.—Geographical Divisions.

NOTE 1.—The following subjects may all be divided geographically by adding the geographical numbers: 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be sub-divided as minutely as wished, like the history, 940–999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

These geographical figures, formed by omitting initial 9 from the historical numbers given in tables 930–999, are simply affixed to the number given in the table below; e. g.: Atlases, 912; Atlases of New South Wales, 912.944; History of mints, 332.49; History of mints in England, 332.4942; Colleges, 378; Colleges in N. Y. City, 378.7471.

373. Academies, private.
379. " public.
354. Administration.
923.5 " biography.
283. American P. E. and Ang. church.
922.3 " " " " " biog.
591.9 Animals, geographical distribution.
328. Annals, legislative.
913. Antiquities, archæology.
923.5 Army biography.
912. Atlases.
923.3 Bankers' lives.
922.6 Baptists' "
016.9 Bibliography of history.
015. " special countries.
920.0 Biography of countries, collective; also religious biography 922.2 to 922.7, and biography of sociology 923.1 to 923.8
581.9 Botany, geographical.
923.3 Capitalists' lives.
922.2 Cardinals' "
282. Catholic church.
922.2 " " biography.
283. Church, Episcopal.
922.3 " " biography.
923.5 Civil service biography.
332.49 Coinage, history of.
378. Colleges.
325. Colonies.
923.8 Commerce, biography of.
922.5 Congregationalists' lives.
342. Constitutional law.
922.4 Continental Protestants' lives.
343. Criminal law.
923.4 Criminals' lives.
91 Description, geographical.
591.9 Distribution of animals, geog.
549.9 " " minerals "
581.9 " " plants "
922.4 Dutch Reformed church biog.
372.9 Education, elementary.
370.9 " history of.
376.9 " of woman.
923.7 Educators' lives.
372.9 Elementary education.
923.1 Emperors' lives.
373. Endowed schools.
283. Episcopal church.
922.3 " " biography.
572.9 Ethnology.
336. Finance.
923.3 Financiers' lives.
349. Foreign law.
327. " relations.
354. " states, administration.
027.0 General libraries, hist., reports, etc
581.9 Geographical botany.
591.9 " dist. of animals.
549.9 " " " minerals.
91 Geography, description.
911. " historical.
912. " maps.
55 Geology.

GEOGRAPHICAL DIVISIONS.

923.2	Governors' lives.
911.	Historical geography.
016.9	History, bibliography of.
332.49	" of coinage.
378.	" " colleges.
370.9	" " education.
372.9	" " " elementary.
373.	" " " private.
379.	" " " public.
378.	" " " universities.
376.9	" " " woman.
027.0	" " general libraries.
332.49	" " mints.
373.	" " private schools.
379.	" " public school system.
27	" " religion.
628.09	" " sanitary engineering.
326.9	" " slavery.
341.2	" " treaties.
378.	" " universities.
376.9	" " woman education.
325.	Immigration.
328.9	Industrial legislation.
923.4	Judges' lives.
923.1	Kings' lives.
923.4	Law biography.
342.	" constitutional.
343.	" criminal.
349.	" foreign.
338.9	Legislation, industrial.
328.	Legislative bodies and annals.
923.2	Legislators' lives.
027.0	Libraries, general, histories, rep., etc.
922.4	Lutheran biography.
912.	Maps.
923.8	Merchants' lives.
922.7	Methodists' "
549.9	Minerals, geographical distribution.
332.49	Mints, history.
923.5	Naval biography.
923.2	Nobles' lives.
329.9	Parties, political (except U. S.).
923.6	Philanthropists' lives.
912.	Plans of cities, etc.
923.3	Political economy, biography.
329.9	" parties (except U. S.).
923.2	" science, biography.
923.2	Politicians' lives.
922.5	Presbyterians' lives.
923.1	Presidents' lives.
373.	Private schools.
283.	Protestant Episcopal church.
922.3	" " " biog.
922.4	Protestants, Continental, lives.
379.	Public school system.
923.1	Queens' lives.
923.8	Railroad officials' lives.
327.	Relations, foreign.
27	Religious history.
378.	Reports of colleges.
372.9	" " elementary education.
027.0	" " general libraries.
373.	" " private schools.
379.	" " public school system.
378.	" " universities.
376.9	" " woman education.
282.	Roman Catholic church.
922.2	" " " biography.
923.1	Rulers, Chief, lives.
628.09	Sanitary engineering, history, etc.
923.7	School officers' biography.
373.	Schools, private.
379.	public, system.
923.5	Service, Civil, biography.
326.9	Slavery history.
923.2	Statesmen's lives.
31	Statistics.
923.7	Teachers' lives.
91	Travel, description.
341.2	Treaties, texts and history.
378.	Universities, history, reports, etc.
376.9	Woman education.

NOTE 2. — The form distinctions 01, Philosophy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

Table 3, Part 1. — Languages and Literatures.

NOTE 3. — Changing initial 4 of any philology number to 8 gives the literature number for that language; e.g.:

French Philology	44	French Literature	84
Portuguese "	469	Portuguese "	869
Swedish "	439.7	Swedish "	839.7
Bulgarian "	491.81	Bulgarian "	891.81

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide other languages. The table below includes all mentioned in the classification, except those in 494-499, not yet sub-divided.

For philological topic numbers to be added to any of these language numbers, see part 2 of this table.

491.58	Afghani.
492.8	Amharic.
429.	Anglo Saxon, special division. see 829.
492.7	Arabic.
492.1	Aramaic.
491.54	Armenian.
491.68	Armorican.
491.52	Avestan, Zend.
492.19	Babylonian.
491.52	Bactrian, Old.
491.68	Bas Breton.
491.44	Bengali.
491.86	Bohemian.
491.68	Breton, Bas.
491.81	Bulgarian.
492.6	Carthaginian.
492.2	Chaldee.
491.81	Church Slavonic.
493.2	Coptic.
491.67	Cornish.
491.83	Croatian.
491.65	Cymric Group.
491.66	" or Welsh.
439.8	Danish.
439.4	Deutsch, Platt.
439.3	Dutch.
493.1	Egyptian, Old.
42	English.
492.8	Ethiopic.
439.6	Faroese.
439.3	Flemish.
44	French.
439.2	Frisian.
491.61	Gadhelic Group.
491.63	Gaelic or Scotch.
43	German.
439.9	Gothic.
48	Greek.
489.	" Modern.
491.47	Gujerati.
492.4	Hebrew.
492.9	Himyaritic.
491.43	Hindi.
491.43	Hindustani.
491.53	Huzwaresh.
439.6	Icelandic.
491.1	Indic Group.
491.62	Irish.
45	Italian.
491.83	Kroatian.
491.57	Kurdish.
47	Latin.
479.	" Medieval.
491.93	Lettish.
491.92	Lithuanian.
491.93	Livonian.
491.64	Manx.
491.46	Marathi.
479.	Medieval Latin.
489.	Modern Greek.
491.55	" Persian.
491.87	Moravian.
492.19	Nineveh Cuneiform.
439.8	Norwegian.
491.52	Old Bactrian.
493.1	" Egyptian.
447.01	" French.
439.6	" Norse.
491.51	" Persian.
491.91	" Prussian.
439.2	" Saxon.
491.56	Ossetic.
491.3	Pali.
491.42	Panjabi.
491.53	Pehlevi.
491.55	Persian, Modern.
491.51	" Old.
492.3	Peshito.
492.6	Phenician.
439.4	Platt Deutsch.
491.89	Polabian.
491.85	Polish.
469.	Portuguese.
491.2	Prakrit.
449.	Provençal.
491.91	Prussian, Old.
459.9	Rumansh.
491.7	Russian.
491.79	Ruthenian.
492.5	Samaritan.
491.2	Sanskrit.
439.2	Saxon, Old.
491.63	Scotch or Gaelic.
491.82	Servian.
491.41	Sindhi.
491.48	Singhalese.
491.81	Slavonic, Church.
491.87	Slovakian.
491.84	Slovenian.
491.88	Sorbian.
46	Spanish.
439.7	Swedish.
492.3	Syriac.
491.45	Uriya.
459.	Wallachian.
491.66	Welsh.
491.52	Zend.

Table 3, Part 2. — Philological Divisons of Languages.

All languages can also be divided like 420, English, by adding the figures below; e. g.:

English orthography	421
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Arabic "	492.71
Gaelic "	491.631
Syntax of English verbs	425.8
" Modern Greek verbs	489.58
" Danish "	439.858
" Armenian "	491.5458
Inflection of English nouns	425.15
" Anglo-Saxon nouns	429.515
" Hebrew "	492.4515
" Welsh "	491.66515

16 Accent, pronunciation.
61 " prosody.
26 Adjectival forms, derivation.
516 Adjectives, inflection.
56 " syntax.
29 Adverbs, derivation.
11 Alphabet.
67 Antistrophe, prosody.
53 Arrangement of words and clauses.
56 Articles, syntax.
12 Aspirates.
25 Case endings, derivation.
53 Clauses, arrangement of.
26 Comparison, signs of, derivation.
54 Conditional sentences.
13 Consonants.
7 Dialects.
3 Dictionaries.
25 Diminutives, derivation.
12 Diphthongs.
86 Elementary readers.
83 Errors of speech.
2 Etymology, derivation.
51 " inflection.
63 Feet, prosody.
64 Figures of prosody.
82 First lessons.
24 Foreign elements.
5 Grammar.
54 Hypothetical sentences.
31 Idioms.
88 Individual authors, texts.
51 Inflection.
516 " of adjectives.
515 " " nouns.
517 " " pronouns.
518 " " verbs.
17 Inscriptions.
21 Laws of language.
65 Meters, prosody.
28 Moods, signs of, derivation.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
6 Prosody.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relative pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
8 Text books.
68 " " for writing verse.
88 Texts of individual authors.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
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83 " use of.

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Third edition, revised and enlarged

By

Melvil Dewey, A. M.

Prof. of Library Economy, Chief Librarian, and Director of the Library School of Columbia College; Secretary American Library Association; Editor Library Notes.

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EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to *no* division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the **full tables of sub-sections**; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction to the full edition from which the "Tables and Index" are reprinted.

FIRST SUMMARY

CLASSES

0. GENERAL WORKS
1. PHILOSOPHY
2. RELIGION
3. SOCIOLOGY
4. PHILOLOGY
5. NATURAL SCIENCE
6. USEFUL ARTS
7. FINE ARTS
8. LITERATURE
9. HISTORY

DIVISIONS.

000 General Works.
010 Bibliography.
020 Library Economy.
030 General Cyclopedias.
040 General Collections.
050 General Periodicals.
060 General Societies.
070 Newspapers.
080 Special Libraries. Polygraphy.
090 Book Rarities.

100 Philosophy.
110 Metaphysics.
120 Special Metaphysical Topics.
130 Mind and Body
140 Philosophical Systems.
150 Mental Faculties. Psychology.
160 Logic.
170 Ethics.
180 Ancient Philosophers.
190 Modern Philosophers.

200 Religion.
210 Natural Theology.
220 Bible.
230 Doctrinal Theol. Dogmatics.
240 Devotional and Practical.
250 Homiletic. Pastoral. Parochial.
260 Church. Institutions. Work.
270 Religious History.
280 Christian Churches and Sects.
290 Non-Christian Religions.

300 Sociology.
310 Statistics.
320 Political Science.
330 Political Economy.
340 Law.
350 Administration.
360 Associations and Institutions.
370 Education.
380 Commerce and Communication.
390 Customs. Costumes. Folk-lore.

400 Philology.
410 Comparative.
420 English.
430 German.
440 French.
450 Italian.
460 Spanish.
470 Latin.
480 Greek.
490 Minor Languages.

500 Natural Science.
510 Mathematics.
520 Astronomy.
530 Physics.
540 Chemistry.
550 Geology.
560 Paleontology.
570 Biology.
580 Botany.
590 Zoology.

600 Useful Arts.
610 Medicine.
620 Engineering.
630 Agriculture.
640 Domestic Economy.
650 Communication and Commerce.
660 Chemical Technology.
670 Manufactures.
680 Mechanic Trades.
690 Building.

700 Fine Arts.
710 Landscape Gardening.
720 Architecture.
730 Sculpture.
740 Drawing. Design. Decoration.
750 Painting.
760 Engraving.
770 Photography.
780 Music.
790 Amusements.

800 Literature.
810 American.
820 English.
830 German.
840 French.
850 Italian.
860 Spanish.
870 Latin.
880 Greek.
890 Minor Languages.

900 History.
910 Geography and Description.
920 Biography.
930 Ancient History.
Modern.
940 Europe.
950 Asia.
960 Africa.
970 North America.
980 South America.
990 Oceanica and Polar Regions

GENERAL WORKS.

Limited to *none* of the nine classes.

000
001
002
003
004
005
006
007
008
009

Left blank for local history or biography, etc., where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 Bibliography.
011 General Bibliographies.
012 Of Special Authors.
013 " " Classes of Authors.
014 " " Forms, Pseudonyms, etc.
015 " " Countries.
016 " " Subjects.
017 Subject Catalogs.
018 Author "
019 Dictionary "

020 Library Economy.
021 Scope and Founding.
022 Buildings.
023 Government and Service.
024 Regulations for Readers.
025 Administration. Departments.
026 Special Subject Libraries, etc.
027 General Libraries. Reports, etc.
028 Reading and Aids.
029 Literary Methods.

030 General Cyclopedias.
031 American.
032 English.
033 German.
034 French.
035 Italian.
036 Spanish.
037 Slavic.
038 Scandinavian.
039 Minor Languages.

040 General Collected Essays, etc.
041 American.
042 English.
043 German.
044 French.
045 Italian.
046 Spanish.
047 Slavic.
048 Scandinavian.
049 Minor Languages.

050 General Periodicals.
051 American.
052 English.
053 German.
054 French.
055 Italian.
056 Spanish.
057 Slavic.
058 Scandinavian.
059 Minor Languages.

060 General Societies.
061 American.
062 English.
063 German.
064 French.
065 Italian.
066 Spanish.
067 Slavic.
068 Scandinavian.
069 Minor Languages.

070 Newspapers. Journalism.
071 American.
072 English.
073 German.
074 French.
075 Italian.
076 Spanish.
077 Slavic.
078 Scandinavian.
079 Minor Languages.

080 Special Libraries. Polygraphy.
081
082
083
084
085
086
087
088
089

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090 Book Rarities.
091 Manuscripts.
092 Block Books.
093 Early Printed. Incunabula. See 655.
094 Rare Printing. Privately Printed.
095 Rare Binding.
096 Rare Illustrations or Materials.
097 Ownership. Book Plates.
098 Prohibited. Lost. Imaginary.
099 Other Rarities. Curiosa.

PHILOSOPHY.

100 Philosophy.
101 Utility.
102 Compends.
103 Dictionaries.
104 Essays.
105 Periodicals.
106 Societies.
107 Education.
108 Polygraphy.
109 History.

110 Metaphysics.
111 Ontology.
112 Methodology.
113 Cosmology.
114 Space.
115 Time.
116 Motion.
117 Matter.
118 Force.
119 Quantity. Number.

120 Metaphysical Topics.
121 Knowledge, origin, and limits.
122 Causation. Cause and effect.
123 Liberty and Necessity.
124 Teleology. Final causes.
125 Infinite and finite.
126 Consciousness. Personality.
127 Unconsciousness. Automata.
128 The soul.
129 Origin of the individual soul.

130 Mind and Body.
131 Mental physiology and hygiene.
132 Mental derangements.
133 Delusions. Witchcraft. Magic.
134 Mesmerism. Clairvoyance.
135 Sleep. Dreams. Somnambulism
136 Mental Characteristics.
137 Temperaments.
138 Physiognomy.
139 Phrenology. Mental photography.

140 Philosophical Systems.
141 Idealism. Transcendentalism.
142 Critical.
143 Intuitionalism.
144 Empiricism.
145 Sensationalism.
146 Materialism. Positivism.
147 Pantheism. Monism.
148 Eclecticism.
149 Other philosophical systems.

150 Mental Faculties.
151 Intellect.
152 Sense.
153 Understanding.
154 Memory.
155 Imagination.
156 Reason.
157 Sensibility. Emotions.
158 Instincts.
159 Will.

160 Logic.
161 Inductive.
162 Deductive.
163 Assent.
164 Symbolic. Algebraic.
165 Sources of error. Fallacies.
166 Syllogism. Enthymeme.
167 Hypothesis.
168 Argument and persuasion.
169 Analogy. Correspondence.

170 Ethics.
171 Theory of ethics.
172 State ethics.
173 Family ethics.
174 Professional and business ethics.
175 Ethics of amusements.
176 Sexual ethics.
177 Social ethics.
178 Temperance.
179 Other ethical topics.

180 Ancient Philosophers.
181 Oriental.
182 Early Greek.
183 Sophistic and Socratic.
184 Platonic.
185 Aristotelian.
186 Pyrrhonist and New Platonist.
187 Epicurean.
188 Stoic.
189 Early Christian and medieval.

190 Modern Philosophers.
191 American.
192 British.
193 German.
194 French.
195 Italian.
196 Spanish.
197 Slavic.
198 Scandinavian.
199 Other modern.

RELIGION.

200 Religion.
201 Philosophy. Theories.
202 Compends.
203 Dictionaries. Cyclopedias.
204 Essays. Lectures. Addresses.
205 Periodicals. Reviews.
206 Societies. Transactions.
207 Education. Theological Schools.
208 Polygraphy. Collections.
209 History of Theology.

210 Natural Theology.
211 Deism and Atheism.
212 Pantheism. Theosophy.
213 Creation. Evolution.
214 Providence. Theodicy. Fatalism.
215 Religion and Science.
216 Evil. Depravity.
217 Prayer.
218 Future Life. Immortality.
219 Analogies. Correspondences.

220 Bible.
221 Old Testament.
222 *Historical Books.*
223 *Poetical* „
224 *Prophetical* „
225 New Testament.
226 *Gospels and Acts.*
227 *Epistles.*
228 *Apocalypse.*
229 Apocrypha.

230 Doctrinal. Dogmatics.
231 God. Unity. Trinity.
232 Christ. Christology.
233 Man. The Fall. Sin.
234 Salvation. Soteriology.
235 Angels. Devils. Satan.
236 Eschatology. Death. Judgment.
237 *Future State.*
238 Creeds. Confessions.
239 Apologetics.

240 Practical. Devotional.
241 Didactic. Catechisms.
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244 Devout miscellany. Fiction.
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267 Associations. Y. M. C. A., etc.
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272 Persecutions.
273 Doctrines. Dogmas. Heresies.
274 Europe.
275 Asia.
276 Africa.
277 North America.
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279 Oceanica.

280 Christian Churches & Sects.
281 Primitive and Oriental.
282 Roman Catholic.
283 Anglican and American P. E.
284 Continental Protestant.
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286 Baptist.
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288 Unitarian.
289 Minor Christian Sects.

290 Ethnic. Non-Christian.
291 Comparative & General Mythology.
292 *Greek and Roman Mythology.*
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296 Judaism.
297 Mohammedanism.
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300 Sociology.
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307 Education.
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309 History of Sociology.

310 Statistics.
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313 Special Topics.
314 Europe.
315 Asia.
316 Africa.
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318 South America.
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378 Colleges and Universities.
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386 Canal and Highway Transportation.
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397 Gipsies.
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604 Essays. Lectures. Addresses.
605 Periodicals. Magazines. Reviews.
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682 Blacksmithing. Horseshoeing.
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684 Carriage and Cabinet-making.
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691 Materials. Timber, Stone, etc. See 620.1
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699 Car and Ship-building. See 623.8.

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891 Minor Indo-European.
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899 Malay-Polynesian and other.

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908 Polygraphy.
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995 New Guinea.
996 Polynesia.
997 Isolated Islands.
998 Arctic Regions.
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Complete Tables

INCLUDING ALL THE

SUB-SECTIONS

Sub-Sections.

010 Bibliography.

.1, Theory, Utility, etc.; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training, see also 020.7; .8, Polygraphy; .9, History.

011 General Bibliographies. Universal Catalogs.

011 is by **Authors.** If by **Subjects** they go in 016.
012-016 include both bibliographies and catalogs. 017-019 is limited to catalogs of general collections.

012 Of Individual Authors.

Alfabeted by bibliographees, not by compilers; e. g. Chaucer, Dante, Ruskin, etc. Authors whose works are kept together (e. g. in 800s), attract their bibliographies to same number, leaving only a reference here.

013 Of Special Classes of Authors.

e. g. Books written by Jesuits, by Catholics, by members of the Bavarian Academy, etc., or these may go with the church, society, etc., with references here.

014 Of Special Forms. Anonyms, Pseudonyms, etc.

.1, American; .2, English; .3, German, etc.

015 Of Special Countries.

Books published in the country. Publishers' lists, current publications. Subdivided by countries like 940-999; e. g. 015.42, Bibliography of books published in England, as Lowndes or English Catalog.

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc., goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, though the literary history of some special class is 013.

016 Of Special Subjects.

Subdivided like the main classification, from 000-999; e. g. 016.01, Bibliography of bibliographies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

Library and Sale Catalogs.

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017-019 therefore includes only catalogs of general collections, limited to no one class or subject.

017 Classed Catalogs. Systematic or Logical.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.
For all forms of alphabetical subject catalogs, see 019. See 016 for Bibliographies.

018 Author Catalogs. See 011 for Bibliographies.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.
A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronological, and any other forms (except subject and dictionary) of catalogs of collections.

019 Dictionary Catalogs. Alphabetico-classed, etc.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

020 Library Economy.

.1, Coöperation; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

021 Scope and Founding of Libraries.

.1 **Scope and Usefulness.** See 331.85 for Laboring classes.

.2 **Library as an Educator; as People's University.**

.3 **Library in Relation to Schools and the Young.**
See 371.64 and 027.8, School libraries.

.4 **Library Lectures, Museums, Galleries, etc.**

.5 **Library as a Public Recreation.**

.6 **Founding. Extension.**

.7 **Developing Interest; by Press, Lectures, School, Pulpit, Societies, Circulars, etc.**

.8 **Legislation; State and Local.**

.9 **Raising Funds. Securing Gifts of Books, etc.**
Subscriptions, bequests, lectures, fairs, membership fees, taxes, government aid (remitted duties, public documents, foreign exchanges, etc.).

022 Buildings. See also 727.8, Architecture.

.1 **Location. Provision for Growth. Branches. Deliveries.**

.2 **Materials and Protection against Fire. Library Fires.**

.3 **Plans. Number, Size, and Arrangement of Rooms.**
See 729.2.

.4 **Storage Rooms. Stacks. Alcoves. Galleries.**

.5 **Reading Rooms. Central Halls. Small Study Rooms.**

.6 **Administration and Special Rooms.**
Cataloging, office, patent, newspaper, public document, duplicate, class, lecture, museum, art, chess, conversation, waiting, coat, toilet, etc.

.7 **Lighting. Natural and Artificial. Electric, Gas, etc.**
See 621.32, Electric lighting.

.8 **Heating and Ventilation as Affecting Books.**
See 697, Building, Heating, etc. See 621.19, 628.8.

.9 **Fixtures. Furniture and Fittings. Shelving, Counters, Hoists, Desks, Tables, Chairs, etc.**

023 Government and Service.

.1 **Constitution and By-Laws for Managers.**

.2 **Appointment and Tenure of Officers.**

.3 **Trustees. Committees. Directors.**

.4 **Chief Librarian. Qualification. Duties.** See 920.2, Lives.

.5 **Staff. Assistants, Catalogers, Janitor.**

.6 **Daily Hours. Vacations.**

.7 **Titles and Duties.**

.8 **Salaries.**

.9 **Rules for Staff.**

024 Regulations for Readers.

.1 **Readers' Qualifications.**
User's age, Residence, Guarantees, References, Registration.

.2 **Fees and Assessments. Free Use.** See 027.2; 027.4.

.3 **Hours of Opening. Evening Opening.**

.4 **Closing. Sunday, Holiday, Vacation, Examination.**
See 263.7, Sunday; 025.8, Examination.

.5 **Reference Use.**
Access to Catalogs, Librarians, and Shelves. Reading-Room Rules. Decorum in Library.

.6 **Home Use.**
Number of Books, Time, Delinquencies, Fines, Re-lending, Restrictions, Renewals.

.7 **Special Privileges to Readers.**
Extra Books. Extra Time. Reservations. Suspension of Rules. Excuses.

.8 **Injuries. Defacements. Mutilations. Losses. Thefts.**

.9 **Other Regulations for Users.**

025 Administration. Departments.

025 is for the librarian's part. The trustees build and furnish (022); make rules for government and service (023), and regulations for readers (024); but the administration involves questions of its own, which, however, are closely allied to topics in 021–024 and elsewhere; e. g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder's craft (686).

Administration includes .1, Supervision; .2, Acquisition; .3–6, Utilization; .7–9, Preservation; i. e. the librarian's duty to books is to Get, Use, Keep.

.1 **Executive. General supervision.**
Finances, accounts, salaries (see 023.8); Supplies, printing; Publications, statistics, reports, bulletins; Relations to readers, permits, privileges, visitors; Correspondence.

.2 **Accession. Acquisition.**
Selecting and buying books, serials, pamphlets, ephemera; Prices, discounts, duty free, importation (see 337.8); Auctions, old book lists; Sale duplicates, exchanges, gifts (see also 021.9); Reception, checking bills, collation; Plating, pocketing, embossing, private marking; Accessioning; Order slips, index and book, order and serial blanks.

.3 **Catalog.** For printed catalogs themselves, see 017–019. This is for *cataloging*.
Printed, manuscript, or card; Author, subject, title, classed; Dictionary or combined; Coöperative rules; Size notation; Coöperative cataloging; Duplicated titles, print or photography; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels.

.4 **Classification.**
For philosophical classification of knowledge, see 112, Methodology. This is for practical classing of books, pamphlets, and notes, rather than theoretical speculation.
On shelves; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close *vs.* broad classing; Mnemonic features; Basis of division; Co-ordination of special subjects.

.5 **Reference. Reference books. Aids to readers.**
See 028 for general discussion of reading and aids. This is limited to library administration.

.6 **Loan.** See 024.1 and 024.6 for regulations.
Indicators; Charging systems, legers *vs.* cards; Book cards, marks, pockets; Call slips, readers' cards; Notices, reserves; Registers; Inter-library loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 **Binding and repair.** See also 686, Bookbinding.
Materials, durability, tight *vs.* spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling.

.8 **Shelf.** See 022.9, Shelving.
Arrangement; Shelf numbers; Shelf and book labels; Fixed and relative locations; Sizes on shelves; Arrangement and preservation of public documents, pamphlets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Injuries, heat, gas, insects; Stock taking; Shelf lists.

.9 **Building. Care, cleaning, safety. Janitor. Police.**
See 022 for building and fittings. This is janitor's department.

026 Libraries on special subjects.

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in one of the sections above. Subdivided by adding the class number of subject; e. g. a Medical Library is 026.61; a Chess Library, 026.795; but the Catalog of a Chess Library is 016.795; Blanks, etc., from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026-7, thus making a complete set of its publications.

027 General libraries.

This includes both circulating and reference; i. e. all not limited to special subjects. Subdivided if wished by countries, like 930-999; e. g. 027.744, College libraries in France. Or if wished, group all by geographical location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044, Libraries of France; 027.07471, Libraries of N. Y. City.

A private library is still classed 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change.

.1 **Private and family.**

.2 **Proprietary, Society, Club and Athenæum.**

.2 is limited to libraries that are semi-private, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantile library, even though it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2.

.3 **Subscription. Circulating.** e. g. Mudie's, etc.

.4 **Free public. Rate supported. Endowed.** See 331.85.

.5 **State and government.**

.6 **For special classes.**

Institution, prison, reformatory, asylum, monastic, workmen's, factory, railroad, sailors, lighthouse, itinerating. A workmen's library of books on engineering goes 026.62, not here, as the subject is more useful than the class of readers.

.7 **College.**

.8 **School. Sunday-school. Parish.** See also 371.64; 021.3.

.9 **Free news-rooms and reading-rooms.** See also 331.85.

028 Reading and aids.

See 374.1-2, Self education by private reading and reading circles.

.1 **Methods.**

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking.

.2 **Choice of editions.** Annotations, indexes, paper, type.

.3 **Courses of reading.**

.4 **Fiction. Novel reading.**

.5 **Reading of young. Juveniles.**

.6 **Professorships of books and reading.**

Lectures. Stimulus and guidance in schools.

.7 **Use of reference books.**

.8 **Aids to readers.** Guidance, printed or personal, see also 028.6 and 025.5.

.9 **Character of reading in libraries.**

029 Literary methods and labor-savers.

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best served by referring to 025 and 028 instead of repeating the heads.

.1 **Methods.** e. g. Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); coöperative methods; records *vs.* memory, etc.

See 653, abbreviations and shorthand; 154.1, mnemonics; 025.4, classification.

.1 is for what one *learns* how to do by an improved *method.*

.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature.

.2 **Appliances. Labor-saving tools and devices.** See also 651.

Most literary labor-saving devices go also under 651, Office equipment and methods; and are best kept together there; e. g. all office and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc., cases, see 025.8; for binders, 025.7.

.3 **Clippings. Scrapbooks or files.** See also Files 651.

.4 **Notebooks, notetaking, abstracting, etc.**

.5 **Indexing. Index rerums. Printed and patent indexes.**

For alfabeting and transliteration see 025.3.

.6 **Authorship. Writing for press. Copy and proof.**

See also 655.25 Proofreading; 655.52 Relations to publishers.

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The Divisions 030–070 below are all subdivided; 1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other.

030 General cyclopedias.

040 General collected essays.

050 General periodicals. Magazines.

060 General societies. Transactions.

e. g. Academies of Paris, Berlin, Vienna, etc.

070 General newspapers. Journalism.

In large collections use gengraphical divisions under 1, American; 2, English, etc., as in 970 and 940–9. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where published. They could not go on shelves with ordinary sized books, and a reference is made as easily to them under 070 as anywhere.

080 Special libraries. Polygraphy.

090 Book rarities.

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts. Autographs.

Photographs of mss. go with subject rather than here.
For Diplomatics and Palæography, see 417, and under the special language, 421.7, 431.7, etc.

092 Block books.

093 Early printed books. Incunabula.

094 Rare printing.

Aldines, Elzevirs, Caxtons, etc.; Privately printed books; Unique books.

095 Rare binding.

Noted binders, costly ornament, curious bindings.

096 Rare illustrations or materials.

Illuminated. Illustrated by inserted plates. Printed on vellum, silk, bark, etc., in gold or silver letters, etc.

097 Ownership. Book plates. Ex libris.

098 Prohibited. Lost. Imaginary.

099 Other rarities. Curiosa. Minute size, etc.

Philosophy.

100 Philosophy in General.

Works limited to none of the nine Divisions.

101 Utility.

102 Compends, Outlines.

103 Dictionaries, Cyclopedias.

104 Essays, Lectures, Addresses.

105 Periodicals, Philosophical Magazines.

106 Societies, Transactions, etc.

107 Study and Teaching of Philosophy.

108 Polygraphy, Extracts, Maxims, etc.

109 History of Philosophy.

110 Metaphysics.

111 Ontology.

Nature of Being. Substance and Form.

112 Methodology.

Philosophical Classification of Knowledge. Terminology. For Book Classification see 025.4

113 Cosmology.

114 Space.

115 Time.

116 Motion.

117 Matter.

118 Force.

119 Quantity. Number.

120 Other Metaphysical Topics.

121 Theory of Knowledge. Origin. Limits.

122 Causation. Cause and Effect.

123 Liberty and Necessity.
See also 233.7, Freedom; 234.9, Predestination; 159, Will.

124 Teleology. Final Causes.

125 Infinite and Finite.

126 Consciousness. Personality. See 233.6, Doctrine.

127 Unconsciousness. Automata.

128 The Soul. See 218, Natural theology; 237, Future state.

129 Origin of the Individual Soul.

.1 **By Special Creation.** See 213, Creation.

.2 **By Inheritance. Traduction.**
See 575.1, Evolution; 136.3, Mental heredity; 233.3, Spiritual heredity.

.3 **Pre-existence.**

.4 **Transmigration. Palingenesis.**

.5 **Emanation.** See also 147, Pantheism; 212, Natural theology.

130 Mind and Body. Anthropology.

131 Mental Physiology and Hygiene.
For influence of mind on body, mind cure, etc., see 615.851; see also 613.8, Hygiene of nervous system.

132 Mental Derangements.

.1 **Insanity.** See 362.2, Asylums; 920.8, Lives; 616.84, Disease.

.2 **Idiocy.** See 362.3, Asylums; 920.8, Lives; 371.93, Education.

.3 **Hypochondria. Melancholy.** See 616.852, Hysteria.

.4 **Catalepsy.** See 616.852, Hysteria.

.5 **Ecstatics.**

.6 **Kleptomania and other leading to crime.**

.7 **Dipsomania and other leading to vice.**
See also 178, Temperance; 616.861, Alcoholism.

.8 **Mnemonic derangements.**
Not knowing in one state what passed in another. See 154, Memory.

133 Delusions. Witchcraft. Magic.

.1 **Apparitions. Ghosts.**

.2 **Hallucinations.**

.3 **Divination. Oracles. Second Sight. Omens. Predictions.**

.4 **Witchcraft. Sorcery.** See 272.8, Persecutions.

.5 **Astrology.** See also 520.1, Astrology.

.6 **Palmistry.**

.7 **Humbugs. Quackery.**

.9 **Spiritism. Table-tipping, etc.** See also 289.9, Sects.

134 Mesmerism. Animal Magnetism. Clairvoyance.

135 Sleep. Dreams. Somnambulism.

136 Mental Characteristics.
See also 131, Mental physiology.

As Influenced by

.1 **Sex.** See 376.2, Mental capacity of women.

.2 **Physical Surroundings.**
See 575.3, Evolution; 573.4, Natural history of man.

.3 **Ancestry (Mental Heredity).** See 575.1, Evolution; 233.3, Spiritual heredity; 129.2, Origin of soul; 613.92, Hygiene.

.4 **Race. Racial Characteristics.** See 572, Ethnology.

.5 **Age.**

.6 **Physical Structure and Conditions.**

137 Temperaments.

138 Physiognomy.

139 Phrenology. Mental Photographs, etc.

140 Philosophical Systems.

The heads 140–149.9 are for the discussion of the systems as such. The philosophical works of authors of these various schools are classed under 190, not here. From these heads refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system.

141 Idealism. Transcendentalism. e. g. Plato, see 184.1, 884.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36.

142 Critical Philosophy. e. g. Kant, see 193.2.

143 Intuitionalism. e. g. Reid, see 192.5; McCosh, see 191.5.
See also 156, Intuitive faculty; 171.2, Ethics.

144 Empiricism. e. g. Descartes, see 194.1; Bacon, see 192.1.

145 Sensationalism. e. g. Locke, see 192.2.

146 Materialism. Positivism. e. g. Hobbes; Comte, see 194.8.
See also 149.2, Realism.

147 Pantheism. Monism. e. g. Spinoza. See 212, Natural theology.

148 Eclecticism. e. g. Cousin, see 194.7.

149 Other Philosophical Systems.
See 211, Rationalism, Scepticism; 214, Fatalism.

.1 **Nominalism.**

.2 **Realism.** See 146, Materialism.

.3 **Mysticism.** See 273.2, Heresies; 189.5, Medieval philosophy.

.4 **Associationalism.**

.5 **Optimism. Meliorism.**

.6 **Pessimism.** e. g. Schopenhauer, see 193.7.
See also 216, Evil; 233, Doctrine of man.

.7 **Agnosticism.** See 273.8, Agnostic heresy.

.8 **Nihilism.**

.9 **Other Systems.**

150 Mental Faculties. Psychology.

For mind in animals, see 591.51.

0.70 Educ. 150.71 Impact 150.72 Apperception

151 Intellect. Capacity for Knowing.

.1 Genius.

.2 ATTENTION 3. Mental imagery.

152 Sense. Sense Perceptions.

Passive or Receptive Faculty.

.1 Vision.

.2 Hearing.

.3 Smell.

.4 Taste.

.5 Touch.

.6 Muscular Sense.

153 Understanding.

Active or Thinking Faculty.

.1 Conception. The Concept or Notion.

.2 Association.

.3 Abstraction.

.4 Reflection.

.5 Judgment.

.6 Reasoning. Induction and Deduction. See 160, Logic.

154 Memory. Reproductive power.

See 132.8, Mnemonic derangements.

.1 Mnemonics.

155 Imagination. Creative Power.

.1 Fancy. Imaging Power.

156 Intuitive Faculty. Reason. For Reasoning, see 153.6.

157 Sensibility. Emotions. Affections.

158 Instincts. Appetites.

159 Will.

160 Logic. Dialectics.

See 153.6, Reasoning power. For logic of chance, see 519, Probabilities.

161 Inductive.

162 Deductive.

163 Assent. Faith. See also 234.2, Doctrinal theology.

164 Symbolic. Algebraic. Logical machines.

Logical topics.

165 Sources of error. Fallacies.

166 Syllogism. Enthymeme.

167 Hypotheses.

168 Argument and persuasion.

169 Analogy. Correspondence. See also 219, Natural theology.

170 Ethics. Theoretical and applied.

Many topics in applied ethics occur also in law, specially in 343, Criminal law. See also 377.2, Ethical education.

.1, ; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies, Society for ethical culture; .7, Study and teaching; .8, Polygraphy; .9, History.

171 Theories. Philosophy of ethics.

.1 Authority. Will of God. Christian.

.2 Intuition. Moral sentiment.

See also 143, Intuitionalism; 156, Intuitive faculty.

.3 Perfection.

.4 Happiness. Hedonism.

.5 Utilitarianism.

.6 Conscience. Casuistry.

.7 Evolutionary or educational.

.8 Altruism.

.9 Egoism.

172 State Ethics.

.1 Individuals and the state. Duties of citizens. Patriotism. See 320, Political science.

.2 Duties of public officers.

.3 Relations to church.

See 261.7, The church; 322, Church and state; 272, Persecutions.

.4 International ethics. Peace and war.

See 341, International law.

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173 Family Ethics.

.1 Marriage and Divorce. See 347.6, Family law.
.2 Polygamy and Monogamy. See 298, Mormonism.
.3 Duties of Husbands and Wives.
.4 Infanticide.
.5 Duties of Parents.
.6 Duties of Children.
.7 Home Life.
.8 Masters and Servants. See 647, Servants; 331, Labor.
.9

174 Professional and Business Ethics.

.1 Clergy.
.2 Physicians.
.3 Lawyers.
.4 Merchants. Business Men.
.5 Speculation.
.6 Gambling. See 175.9.
.7 Compact. Promise.
.8 Employers and Employed.
.9

175 Ethics of Amusements. For amusements, see 790.

.1 Public Shows and Diversions. Rinks, Circuses, etc.
.2 Theater. Opera. Private Theatricals.
.3 Dancing. Balls. Round Dances.
.4 Games of Skill. Billiards, Chess, etc.
.5 Games of Chance. Cards, Dice, etc.
.6 Prize Fighting. Animal Fighting. Bull, Dog, Cock, etc.
.7 Racing. Horse. Boat. Pedestrian. Wheel, etc.
.8 Novel Reading.
.9 Betting. Poolselling. See 174.6.

176 Sexual Ethics.

.1 Chastity.
.2 Celibacy. See 254, Celibacy of Clergy.
.3 Continence.
.4 Solitary Vice.
.5 Social Evil. See 258, Parish care of fallen.
.6 Adultery.
.7 Immoral Art.
.8 Immoral Literature.
.9

177 Social Ethics.

.1 Courtesy. See Etiquet, 395.
.2 Conversation. Gossip. See also 374.1, Self-culture.
.3 Truth. Slander. Flattery.
.4 Dress. Display. Sumptuary Legislation.
.5 Caste. Class Feeling. Wealth and Rank. See 294, Brahmanism; 331, Capital and labor.
.6 Friendship. Courtship. Coquetry.
.7 Philanthropy. Humanity.
.8 Solitude vs. Social Obligations.
.9

178 Temperance. Stimulants and Narcotics.

General works on Temperance may be divided by form into .04, Essays; .05, Periodicals; .06, Societies; .07, Teaching; .09, History. See also 613.3, Beverages; 613.8, Nervous system; 331.84, Laboring classes.

.1 Use of Intoxicating Drinks. Beer Drinking. Medicinal Use.
.2 Total Abstinence vs. Temperance.
.3 Social Drinking. Wine at Table. Treating.
.4 Traffic in Intoxicating Drinks. License. High License. See also 336.27, Taxation.
.5 Prohibition. See 329.81, Prohibition party.
.6 Reformatories. Inebriate Asylums, etc. See 362.
.7 Tobacco.
.8 Opium. Hasheesh. Chloral. Ether and other Drugs.
.9 Gluttony and other Intemperance.

179 Other Ethical Topics.

.1 Morals of the Press. Newspapers.
.2 Cruelty to Children. See 173.4; 331.3, Labor of children.
.3 Cruelty to Animals.
.4 Vivisection. See also 614.22, Vivisection laws.
.5 Oaths.
.6 Heroism. Bravery. Cowardice.
.7 Life. Duelling. Suicide. See 394.8, Customs.
.8 Pride. Covetousness. Envy. Anger. Sloth. Jealousy. Hate, and other Vices.
.9 Humility. Liberality. Gentleness. Patience. Diligence. Charity. Modesty, and other Virtues.

180 Ancient Philosophers.

See 921.9, Biography of Ancient Philosophy.

181 Oriental Philosophers.

.1 Chinese. Confucius. Mencius.
.2 Egyptian.
.3 Jewish. Kabala. Philo. Maimonides.
.4 Indian. Gymnosophists.
.5 Persian. Sufism.
.6 Chaldæan.
.7 Sabeism.
.8 Phœnician.
.9 Syrian.

182 Early Greek Philosophers.

.1 Ionic. Thales. Anaximander. Anaximenes.
Materialistic. Things are as they seem.
.2 Italic or Pythagorean. Half Idealistic.
.3 Eleatic. Xenophanes. Parmenides. Zeno. Melissus.
Idealistic. Existence denied. Thought is the only reality.
.4 Heraclitus.
.5 Empedocles.
.6 Atomistic.
.7 Democritus.
.8 Anaxagoras.
.9 Other Early Greek.

183 Sophistic and Socratic Philosophers.

.1 Sophistic. Protagoras. Gorgias. Prodicus. Hippias.
.2 Socrates.
.3 Socratic.
.4 Cynic. Antisthenes, Diogenes, Crates, etc.
.5 Cyrenaic. Aristippus, Hegesias, etc.
.6 Megaric. Euclid, Eubulides, Diodorus, etc.
.7 Elian and Eretrian. Phedo, Menedemus, etc.

184 Platonic. Older Academy.

.1 Plato. .2 Speusippus. .3 Xenocrates.

185 Aristotelian. Peripatetic. Lyceum.

.1 Aristotle. .2 Theophrastus. .3 Eudemus. .4 Strato.

186 Pyrrhonist. New Platonist.

.1 Pyrrhonism. Scepticism. Pyrrho, Timon.
.2 New Academy. Arcesilaus, Carneades. Plutarch.
See 888.8.
.3 Eclecticism. Cicero. See 875.4.
.4 Alexandrian. Neo-Platonic. Philo, Plotinus, Proclus, Porphyry, Iamblichus. See 239.4, Apologetics; 273.1.

187 Epicurean. Epicurus. Lucretius. See also 871.1.

188 Stoic.

.1 Zeno.
.2 Cleanthes.
.3 Chrysippus.
.4 Panaetius.
.5 Posidonius.
.6 Seneca. See 878.5; 872.6.
.7 Epictetus.
.8 Marcus Aurelius.

189 Early Christian and Medieval Philosophers.

.1 Gnosticism. See 273.1, Basilides, Marcion. See 273.2, Manicheism.
.2 Patristic. Tertullian. Augustine. Clement. Origen.
.3 Arabian. Avicenna, Averroes.
.4 Scholastic. Scotus, Aquinas, Anselm, Abelard.
.5 Mystic. Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme.

190 Modern Philosophers.

See also 921.1 to 921.8, Biography of Philosophy, or lives may be put here with works, with references only under 920, Biography. Philosophical works are put here, not under the School or System to which the author may be thought to belong. See note under 140.

191 American Philosophers.

These numbers may be left blank for future use or used for the well known names among American Philosophical writers given below.

.1 Jonathan Edwards. 1703–1758.
.2 O. A. Brownson. 1803–1876.
.3 Ralph Waldo Emerson. 1803–1882. See 814.36.
.4 Laurens P. Hickock. 1798–
.5 James McCosh. 1811–
.6 Noah Porter. 1811–
.7 Francis Bowen. 1811–
.8 William T. Harris. 1835–
.9 Other American Philosophical Writers.

192 British Philosophers.

.1	Bacon.	1561–1626.	See 144, Empiricism.
.2	Locke.	1632–1704.	See 145, Sensationalism.
.3	Berkeley.	1685–1753.	See 141, Idealism.
.4	Hume.	1711–1776.	See 824.64, English Essays.
.5	Reid.	1710–1796.	See 143, Intuitionalism.
.6	Dugald Stewart.	1753–1828.	
.7	John Stuart Mill.	1806–1873.	
.8	Spencer.	1820–	
.9	Other British Philosophical Writers.		

193 German Philosophers.

.1	Leibnitz.	1646–1716.	
.2	Kant.	1724–1804.	See 142, Critical Philosophy.
.3	Fichte.	1762–1814.	See 141, Idealism.
.4	Schelling.	1775–1854.	
.5	Hegel.	1770–1831.	
.6	Schleiermacher.	1768–1834.	
.7	Schopenhauer.	1788–1860.	See 149.6, Pessimism.
.8	Lotze.	1817–1882.	
.9	Other German Philosophical Writers.		

194 French Philosophers.

.1	Descartes.	1596–1650.	See 144, Empiricism.
.2	Malebranche.	1638–1715.	
.3	Condillac.	1715–1780.	
.4	Rousseau.	1712–1778.	
.5	Diderot.	1713–1784.	
.6	Lamennais.	1782–1854.	
.7	Cousin.	1792–1867.	See 148, Eclecticism.
.8	Comte.	1798–1857.	See 146, Positivism.
.9	Other French Philosophical Writers.		

195 Italian Philosophers.

196 Spanish Philosophers.

197 Slavic Philosophers.

198 Scandinavian Philosophers.

199 Other Modern Philosophers.

The heads of 180–199 are for discussions of the systems of these men and for their philosophical works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and 5, where their works are more useful than in 184–5 because of their classical prominence.

Religion.

200 Religion General works.

201 Philosophy. Theories. Methods.

202 Compends. Outlines. Systems.

203 Dictionaries. Cyclopedias.

204 Essays. Lectures. Disputations. Addresses.
See 252, Sermons.

205 Periodicals. Magazines. Reviews.

206 Societies. Transactions. Reports, etc.
Bible, Tract, etc., societies; history, reports, etc., but their publications go of course with subject.

207 Education. Theological seminaries. Training schools. See 377, Religious and secular education.

208 Polygraphy. Collected works. Extracts, etc.
Many collections go under a more specific head; e. g. 240.

209 History of theology.

210 Natural theology.

211 Deism and atheism.
Scepticism. Infidelity. Rationalism, etc.
See 239, Apologetics; 231, God; 273.8, Agnostic heresy; 149.7, Agnosticism.

212 Pantheism. Theosophy. See 147, Pantheism; 129.5, Origin of soul.

213 Creation. See 113, Cosmology. Evolution. See 575, Science.

214 Providence. See 231.5, Doctrines. Theodicy. See 231.8, for Christian view.

215 Religion and science. See 239.8, Apologetics.

216 Evil. Depravity. See 149.6, Pessimism; 233.2, Sin.

217 Prayer. Prayer gauge. See 264.1, Prayer; 248, Personal religion.

218 Future life. Immortality. Eternity.
See 237, Future state; 128, The soul.

219 Analogies. Correspondences. See also 169, Logic.

220 Bible. General works.

For similar works limited to Old or New Testament, or individual books, see specific head below

.1 Canon. Inspiration. Prophecy.

.2 Concordances. Analyses.

.3 Dictionaries. Cyclopedias.

.4 Original texts and early versions. Codices.

Heads for both old and new testaments are given, as they are also used for 221 and 225.
.42, Chaldee; .43, Syriac; .44, Hebrew; .45, Samaritan; .46, Other Semitic. Ethiopic, Arabic, etc.; .47, Latin. Itala. Vulgate; .48, Greek. Septuagint. Aquila. Symmachus. Theodotion. Hexapla; .49, Other early versions. Armenian. Coptic, Gothic, etc. 220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7, with reference from 220.44.

.5 Versions of Bible. Polyglots. Divided by languages, like 400.

These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43.

.6 Hermeneutics. Exegesis. Symbolism. Typology.

.7 Commentaries on whole Bible, and annotated editions.

For Notes, etc., on Portions of the Bible, see the most specific head in 221–229.

.8 Special topics.

Divided like General Classification; e. g. Natural Science of the Bible in 220.85.

.9 Biblical Geography and History.

.91, Biblical geography, description, etc.; (see 915.69, 913.33, Palestine); .92, Scriptural biography; (see also 922.1; 232.9, Lives of Christ); .93, Antiquities, archæology; (see also 296, Jewish religion; 933, History of Jews); .94, Chronology; .95, History, see 933, Jews.

221 Old Testament. Texts. Introductions, etc.

Divided like 220, e. g. 221.7. Commentaries on O. T.

222 Historical books.

.1 Pentateuch.

.11, Genesis; .12, Exodus; .13, Leviticus; .14, Numbers; .15, Deuteronomy; .16, Decalogue.

.2 Joshua.

.3 Judges and Ruth.

.4 Samuel.

.5 Kings.

.6 Chronicles.

.7 Ezra.

.8 Nehemiah.

.9 Esther.

223 Poetical books.

.1 Job.

.2 Psalms.

.3 Authorship and chronology.

.4 Special groups.

Messianic; Greater Hallel; Lesser Hallel; Vesper Psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic Five Books, Ps. 1–41; 42–72; 73–79; 60–106; 107–150.

.5 Liturgic use by Christians.

See 264.038, Anglican psalter; 245, Hymnology.

.6 Commentaries on Psalms.

.7 Proverbs.

.8 Ecclesiastes.

.9 Song of Solomon or Canticles.

224 Prophetical Books.

.1 Isaiah.

.2 Jeremiah.

.3 Lamentations.

.4 Ezekiel.

.5 Daniel.

.6 Hosea.

.7 Joel.

.8 Amos.

.9 Other Minor Prophets.

.91 Obadiah.

.92 Jonah.

.93 Micah.

.94 Nahum.

.95 Habakkuk.

.96 Zephaniah.

.97 Haggai.

.98 Zechariah.

.99 Malachi.

225 New Testament. Texts, Introductions, etc.

Divided like 220.

226 Gospels and Acts.

.1 Harmonies.

.2 Matthew.

.3 Mark.

.4 Luke.

.5 John.

.6 Acts of the Apostles.

.7 Miracles.

.8 Parables.

.9 Lord's prayer.

227 Epistles.

.1 Romans.

.2 1 Corinthians.

.3 2 Corinthians.

.4 Galatians.

.5 Ephesians.

.6 Philippians.

.7 Colossians.

227.8 Other Pauline Epistles.

.81 1 Thessalonians.
.82 2 Thessalonians.
.83 1 Timothy.
.84 2 Timothy.
.85 Titus.
.86 Philemon.
.87 Hebrews.

.9 Catholic Epistles.

.91 James.
.92 1 Peter.
.93 2 Peter.
.94 1 John.
.95 2 John.
.96 3 John.
.97 Jude.

228 Apocalypse.

229 Apocrypha.

.1 Esdras 1, 2.
.2 Tobit, Judith, Esther.
.3 Wisdom.
.4 Ecclesiasticus.
.5 Baruch, Epistle of Jeremy, Song of the three Children.
.6 Story of Susanna, History of Bel and the Dragon, Prayer of Manasses.
.7 Maccabees 1, 2, 3.
.8 Pseudo Gospels.
.9 Apostolic Epistles and Canons. Clementines. See 281.1.

230 Doctrinal. Dogmatics. Theology.

General Doctrinal Works may be subdivided by churches like 280–289. See 252.3.

231 God. Unity. Trinity.

.1 God the Father, Creator.
.2 God the Son, Redeemer.
.3 God the Holy Ghost, Giver of Life, Sanctifier.
.4 Divine Attributes. Omniscience, Omnipresence, Omnipotence.
.5 Divine Providence. See 214.
.6 Divine Love and Wisdom.
.7 Divine Law and Miracles.
.8 Theodicy. Vindication of God's justice in permitting evil. See also 214, Nat. theology.
.9

232 Christology.

.1 Incarnation. Messiah.
.2 Logos, the Word of God.
.3 Atonement.
.4 Sacrifice.
.5 Resurrection.
.6 Second Coming. See also 289.3, Second Adventists.
.7 Judgment.
.8 Divine Humanity.
.9 Lives of Christ.

233 Man.

.1 The Fall.
.2 Sin.
.3 Moral and Spiritual Heredity. See Biology, 575.1; 136.3; 129.2.
.4 Accountability.
.5 Natural and Spiritual Body.
.6 Personality. See 126, Metaphysics.
.7 Freedom. See 234.9; 123; 159.
.8
.9

234 Salvation. Soteriology.

.1 Grace.
.2 Faith.
.3 Redemption.
.4 Regeneration.
.5 Repentance.
.6 Obedience.
.7 Justification.
.8 Sanctification.
.9 Predestination and Freewill. See 233.7; 123; 159.

235 Angels. Devils. Satan.

236 Eschatology. Last Things.

.1 Death.

.2

.3 Millennium.

.4 Intermediate State. Sheol. Hades.

.5 Purgatory.

.6 Paradise. Limbus patrum.

.7 Limbo. Limbus infantum.

.8 Resurrection.

.9 Judgment. See 232.7, Christology.

237 Future State. See 218, Natural theology.

.1 Eternity.

.2 Immortality.

.3 Conditional Immortality.

.4 Heaven.

.5 Hell. Gehenna.

.6 Retribution. Future Punishment.

.7 Eternal Punishment. See 289.1, Universalists.

238 Creeds. Confessions. Covenants. Catechisms.

Divided more closely if wished like 280–289; e. g. 238.19, Greek church.

.1 Apostles', Nicene, and Athanasian Creeds.

.2 Creed of Pius IV. (Trent); and later Roman.

.3 Anglican. 39 Articles, A. D. 1551. See 264.037, Liturgy.

.4 Continental Prot. Lutheran. Calvinist. Dort.

.5 Westminster. Saybrook. Cong'l. Cambridge. Savoy.

.6–9 Of other Sects. Divided like 286–289.

239 Apologetics. Evidences of Christianity.

If preferred, courses of Apologetic lectures may be kept together; e. g. 239.01, Bampton; .02, Boyle; .03, Hulsean; .04, Bohlen; .05, Paddock; .08, Miscellaneous. More usefully each book is classed under the most specific head that will contain it.

.1 Apostolic Age.

.2 Against the Jews.

.3 Against the Heathen.

.4 Against the Neo-Platonists. See 273.1, Gnostic heresy.

.5 Against the English and Scotch Deists. See 211, Deism.

.6 Against the French Encyclopedists.

.7 Against the Rationalists.

See 211, Natural theology; 273.8, Agnostic heresy; 149.7, Agnosticism.

.8 Against the Scientists. For non-Christian view, see 215.

.9 Other Special Denials.

240 Devotional. Practical.

241 Didactic. For Catechisms, see 238.

242 Meditative. Contemplative. See 248, Personal religion.

243 Hortatory. Evangelistic.

244 Miscellany. Religious novels, Sunday-school books, allegories, etc.

But class Bunyan in 823.42, because of his literary prominence.

245 ~~Hymnology~~. Religious poetry.

See 223.5, Psalms; 264.038, Psalter. 783

Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked.

246 Ecclesiology. Symbolism. Religious art.

246-7 cover religious bearings. For art side see 700.

.1 Byzantine and Gothic ecclesiology.

See 723, Mediæval architecture; 726, Religious architecture.

.2 Primitive church and heathen art.

.3 Images in churches. Iconoclasts.

.4 Protestantism and religious art.

.5 Emblematic and cryptographic art. Catacomb symbols.

.6 Liturgic symbolism. Altar. Colors. Lights.

See 264, Public worship.

.7 Evangelistic use of music and art, pictorial and plastic. Della Robbias.

.8 Eucharistic music. Ambrose. Gregory the Great. Later development. See 783, Sacred music; 264.2, Public worship.

.9

247 Sacred furniture. Vestments. Vessels. Ornaments, etc.

.1 Font. Baptistery. Lectern. Pulpit.

.2 Tabernacle. Rood screen. Reredos.

.3 Sculpture and mortuary design.

See 718, Monuments; 726.8, Mortuary buildings; 730, Sculpture.

.4 Illumination. Mosaics. Enamels. Stained glass.

See 745, Ornamental design; 748, Stained glass.

.5 Fresco and religious painting. See 750, Painting.

.6 Pallium. Mitre. Crozier. Ring.

.7 Vestments and altar cloths.

.8 Eucharistic vessels. See 265.3, Sacraments.

.9 Ornaments, etc. Crucifix. Banners. Thurible. Incense.

248 Personal religion. Asceticism. See also 273.2, Ascetic heresy.

249 Family devotions. See 264, Public worship.

250 Homiletic. Pastoral. Parochial.

251 Homiletics. Preaching. See 264.6, Public worship.

Divided like 252, for matter *about* special kinds of sermons.

252 Sermons.

The collected sermons on various topics under 252 are divided by churches and sects, like 280. The sermons on specific topics are more useful, like other pamphlets, classed with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, in 331.89. The nine heads below are for collections and cross references, but can be used for separate sermons if the classifier prefers.

.1 Episcopal charges. Pastorals.
.2 Controversial. Polemic.
.3 Doctrinal. Dogmatic. See also 230, Dogmatics.
.4 Practical. Devotional.
.5 Academic. Educational. See also 378.7, Baccalaureates.
.6 Political. Public occasions and duties.
.7 Consecration. Ordination.
See also 265.4, Ordination; 265.9, Consecration; 262.16, Polity.
.8 Expository.
.9 Memorial. Obituary. Biographical. Historical.
The memorial of a special church goes with that church in 280. See 920, Biography.

253 Pastoral visitations, evangelistic.

254 Clerical support. Celibacy.

See also 176.2, Sexual ethics; 248, Asceticism; 613.89, Hygiene.

255 Brotherhoods. Sisterhoods.

In the parish. For Monastic orders, see 271.

256 Societies for parish work. Guilds. Sodalities.

257 Parochial schools. Libraries, etc.

See 377.5, Education; 027.8, Parish libraries.

258 Parish care of sick, fallen, etc.

See 265.8, Ministry of sick; 176.5, Social evil.

259 Other ministrations and work.

260 Church. Institutions and work.

Social theology.

261 The church. Its influence on morals, civilization, etc.

.1
.2
.3 Church vs. barbarism.
.4 Church and morals.
.5 Church and intellectual development. See 377.8, Education.
.6 Church and civilization.
.7 Church and civil government. See 172.3, State ethics; 322, Church and state.
.8 National churches vs. organic unity.
.9

262 Ecclesiastical polity.

.1 Ministry.
.11 Apostolic succession.
.12 Episcopate.
.13 Papacy. Primacy. Papal supremacy; infallibility, 18 July 1870.
.14 Priest. Presbyter. Minister. Lay ministry.
.15 Deacon. Deaconess. Evangelist.
.16 Orders. Ordination. See 265.4, Sacraments; 252.7, Sermons.
.17 Episcopal.
.18 Presbyterian.
.19 Congregational.
.2 Parish. Congregation. See 250 for Parochial work.
.3 See. Diocese. Cathedral system.
.4 Council. Synod. Presbytery. Congregation. Convention.
Polity only, here. Proceedings go with churches, 281-9.
.5 General or œcumenical council. See also 270.2.
.6 Canons. Decrees.
.7 Traditions.
.8 Authority. Church and ministerial. Private judgment.
.9 Discipline. Courts. Trials. For Canon law see 348.

263 Sabbath. Lord's day. Sunday.

.1 Hebraic sabbath.
.2 Modern sabbath. Seventh day.
.3 Lord's day. Christian Sunday.
.4 Sunday observance.
.5 Work.
.6 Amusement.
.7 Opening libraries and museums.
See also 024.4, Library rules.
.8 Sunday laws.
.9

264 Public worship. Divine service. Ritual.

See also 246, Ecclesiology; 247, Sacred furniture. General works are divided by Churches like 280. Under various Churches the services may be further divided, as, e. g.

.03 Anglican and American P. E. ritual.
.031 Calendar. Festivals and fasts. See also 529.6, Chronology.
.032 Lectionary and rubrics.
.033 Morning prayer. Litany.
.034 Evening prayer. Vespers. Compline.
.035 Sacraments, ordinances, and services. See also 265, Sacraments.
.036 Collects, epistles and gospels.
.037 Ordinal. Articles. Creeds. See also 238.3, Creeds, doctrines.
.038 Psalter and other. See 223.5, Psalms; 245, Hymnology.
.039 History of successive prayer books.

264.1 Prayer. Extempore. Liturgic.
See also 248–249, Private and Family Prayer.

.2 Music. Singing. Instrumental. Praise Meeting.
See also 783, Sacred Music; 246.7, 246.8, Ecclesiology.

.3 Scripture Readings.

.4 Antiphonal or Responsive Readings.

.5 Confessions of Faith. Creeds. See also 238, Creeds.

.6 Sermons. Exhortations. Instructions.
See also 251 and 252, Preaching and Sermons.

.7 Prayer and Conference Meetings

.8 Class and Covenant Meetings. Love Feasts.

.9 Sacramentals. See also 265, Sacraments.

265 Sacraments. Ordinances.

.1 Baptism.

.2 Confirmation. Church Fellowship.

.3 Eucharist. Holy Communion. Sacrifice.

.4 Holy Orders. Ordination. See also 262.16, Ministry; 252.7, Sermons.

.5 Marriage. See 173, Ethics of the Family.

.6 Penance. Confession. Absolution.

.7 Extreme Unction. Viaticum.

.8 Ministry of Sick and Dead. Faith Cure. Healing. Burial.

.9 Consecration. Dedication. See 262.16, Ordination; 252.7, Sermons.

266 Missions. Home and Foreign.

Subdivided by Churches, like 280. See also 377.6, Missionary schools.

Missions in special countries or places, including those of all churches, go under the geographically divided Religious History, 274–279, with references under 266.

267 Associations. Y. M. C. A., etc.

268 Sunday Schools.

269 Revivals. Retreats. Parish Missions.

270 Religious History.

Ancient Period. To Conversion of Germans.

See 281.1–281.4, for collected works of early theological writers, etc. 270 is for religious history of these *periods*.

For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2.

.1 Apostolic. Nativity to Constantine.

.2 Period of Œcumenical Councils. Centralization. A. D. 325-787.

The Greek Church acknowledges these seven Councils as really Œcumenical. Anglicans generally recognize only the first six. See also 262.5, Polity.

.21 First of Nice, A. D. 325.
.22 First of Constantinople, 381.
.23 First of Ephesus, 431.
.24 Chalcedon, 451.
.25 Second of Constantinople, 533.
.26 Third of Constantinople, 681.
.27 Second of Nice, 787.

Mediæval Period. Charlemagne to Luther.

270.3 Charlemagne. Papacy vs. Empire. A. D. 787–1054.
Church planted among the Germans. Feudalism. Great schism, east *vs.* west, 1054.

.4 Hildebrand. Roman Supremacy. A. D. 1054–1200.
Temporal Power. Scholasticism. First three Crusades.

.5 Later Mediæval. Renaissance. A. D. 1200–1517.
Innocent III. Papal Schism. Avignon. Nominalism *vs.* Realism. Greek Church under Moslems. Education. Arts. Inventions. Pre-Reformation.

Modern Period. Reformation to present.

From A. D. 1517, Theology in Europe is in three types, viz.: Roman, Lutheran, and Reformed or Calvinistic.

.6 Reformation. Counter-Reformation. A. D. 1517–1648.
Council of Trent, A. D. 1545-63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious Wars. Jesuit Missions in East. See also Reformation in England, etc., 274.2.

.7 Peace of Westphalia to French Revolution. A. D. 1648–1789.
Union of Church and State. Deism. Materialism.

.8 Modern. Rationalistic. A. D. 1789-
Holy Alliance. Greek Church in Russia. Atheism. Pantheism. Protestant Missions.

271 Monastic Orders.

See also 255, Brotherhoods; 377.3, Monastic schools.

.1 Benedictines. Founded A. D. 529.
.2 Dominicans. ,, ,, 1170.
.3 Franciscans. ,, ,, 1182.
.4 Augustinians. ,, ,, 1256.
.5 Jesuits. ,, ,, 1540.
.6 Passionists. 1720. Redemptorists. 1732.
.7 Lesser Roman Orders.
.71 Carthusians. Founded A. D. 1086.
.72 Cistercians. ,, ,, 1098.
.73 Carmelites. 12th Century.
.74 Trappists. 1150. Capuchins. 1525.
.75 Sulpicians. 1642.
.76 Oblates.
.77 Lazarists. 1624.
.78 Christian Brothers. 18th Century. De la Salle.
.79 Other Lesser Roman Orders.
.8 Anglican Brotherhoods.
.9 Sisterhoods.
.91 Sisters of Charity. Vincent de Paul. Founded A. D. 1629.
.92 Sisters of Mercy. Augustinian. ,, ,, 1831.
.93 Ladies of the Sacred Heart. Jesuit. ,, ,, 1800.
.94 Sœurs de bon Secours. Nurses.
.95 Little Sisters of the Poor.
.96 Contemplative. Cloistered Nuns.
.97 Other Roman Sisterhoods.
.971 Carmelites.
.972 Second of St. Dominick.
.973 Franciscans.
.974 Ursulines. A. D. 1537.
.975 Of the Visitation. ,, 1610.
.976 Of St. Joseph. ,, 1650.
.977 Of the Presentation. ,, 1777.
.98 Anglican Sisterhoods.
.99 Other Protestant Orders. Deaconesses. (Kaiserwerth.)

272 Persecutions.

.1 Apostolic Church by Imperial Rome. 1st to 4th Century.

.2 Heretics, by Inquisition or Holy Office. Since 1470. ,,

.3 Waldenses and Albigenses. 11th and 12th Cent. By R.Ch.
See also 284.4, Protestant sects.

.4 Huguenots. French Protestants. St. Bartholomew, 1572. Edict Nantes, 1598, Revocation, 1685. By Rom. Ch.
See also 284.5, Protestant sects.

.5 Molinists and Quietists. Close of 16th Century to destruction of Port Royal, A. D. 1709. By Roman Catholics.
See also 273.7, Heresies.

.6 Marian. Anglican Reformers by Mary. A. D. 1553–8. ,,

.7 Elizabethan. Later 16th Century. Rom. Ch. by Anglicans.

.8 Quakers. Baptists. Witches. Later 17th Cty. By Puritans.
See also 133.4, Witchcraft.

.9 Other Persecutions.

273 Heresies.

For the history of special Doctrines see 230–239, Doctrinal Theology.

.1 Gnostic.—Reaction of Pantheism and Heathen Philosophy on Christianity. 1st three Centuries.
See also 189.1, Gnostic philosophy; 186.4, Neo-Platonism; 239.4, Apologetics.

.2 Manichæism.—Parsee Dualism. Opposition of Good and Evil. Mystic. Ascetic. 3d Century.
See 149.3, Mysticism; 248, Asceticism.

.3 Sabellian.—That the Trinity is not of persons, but of successive manifestations. About 250 A. D. (Held by Schleiermacher, Bushnell, Swedenborg.)

.4 Arian.—Denying Divinity of Christ. 4th Century.

.5 Pelagian.—Denying Original Sin and Supernatural Grace. 5th Century.

.6 Antinomian.—Denying force of Law, under Gospel Dispensation. 16th Century.

.7 Molinist and Jansenist. Pietists. Port Royal.—Augustine's doctrine of Grace, vs. the Roman doctrine of Good Works. A. D. 1580–1700.

.8 Agnostic.—Denying possibility of Revelation. Holding that Theology and the Supernatural lie without the domain of Human Knowledge.
See also 149.7, Philosophy; 211, Atheism; 239, Apologetics.

.9 Minor Heresies.

274 to 279 General Religious History. By Countries.

274–279 is divided geographically like 940–999.

280 Christian Churches and Sects.

281 Primitive and Oriental Churches.

See also 270.1 to 270.3, Early Religious History.

.1 Apostolic Church, to time of Great Schism, A. D. 1054.
Works of Apostolic and Christian Fathers here; use 270 for religious history of these periods. See also 229.9, Apocryphal books.

.2 Primitive Apostolic, to end of First Century.

.3 Ante-Nicene, A. D. 100–325. See also 270.1.

.4 Post-Nicene, A. D. 325–1054. See also 270.2–3.

.5 Oriental Churches.

.6 Armenian.

.7 Coptic.

.8 Nestorian.

.9 Eastern or Græco-Russian or Holy Orthodox Church.
The Great Schism, Mutual Ex-communication, A. D. 1054, separates the Catholic Church into Eastern and Western Churches, which from this time have separate histories.

282 Western or Roman Catholic Church.

Divided geographically like 940–999.

283 Anglican and American P. E. Church.

Divided geographically, when needed, like 940–999; e. g. the Anglican Church in Australia is 283.94; India, 283.54.

284 Continental Protestant Sects. Protestantism.

.1 Lutheran. Reformed. See also 285.7, Reformed church in America.

.2 Calvinist; Zwinglian. See 285, and 286.1.

.3 Hussites. Anabaptists. Leyden. See 286.1.

.4 Albigenses. Waldenses. Vaudois. See 272.3.

.5 Huguenots. See 272.4.

.6 Moravian.

.7 Scandinavian. Swedish.

.8 Old Catholic.
Here are classed those denying Papal Infallibility, or for other cause cut off from Rome, though Catholic in other respects.

.9 Other.

285 Presbyterian. Reformed. Congregational.

.1 Presbyterian Church in America.

.2 Presbyterian Church in Great Britain.

.3 Cumberland Presbyterian.

.4 United Presbyterian.

.5 Reformed Presbyterian.

.6 Minor Presbyterian Sects.

.7 Reformed (Dutch) Church in America. e. g. 285.77471, in N. Y. City

.8 Congregational.

.9 Puritanism.

286 Baptist.

.1 Calvinistic. .2 Free Will. .3 Seventh Day.

287 Methodist.

.1 Wesleyan Methodist.
.2 Calvinistic Methodist.
.3 Welsh Calvinistic Methodist.
.4 Primitive Methodist.
.5 Primitive Wesleyan.
.6 Methodist Episcopal.
.7 Protestant Methodist.
.8 African Methodist.
.9 Minor Methodist Sects.

288 Unitarian. See 273.4.

289 Minor Christian Sects.

.1 Universalist.
.2 Campbellite or Christian. Disciples.
.3 Adventist. See also 232.6, Second coming of Christ.
.4 New Church or Swedenborgian.
.5 Catholic Apostolic.
.6 Quakers. Friends. Hicksites.
.7 Mennonite.
.8 Shaker. Mystic.
.9 Other Minor Christian Sects.

290 Ethnic. Non-Christian.

291 Comparative and General Mythology.

292 Greek and Roman Mythology.

293 Teutonic and Northern Mythology.

294 Brahmanism. Buddhism. For other Indic Religions, see 299.11.
See also 891.2, Sanskrit literature; 177.5, Caste.

295 Parseeism. Zend Avesta. For other Iranic Religions, see 299.15.
See also 891.52, Zend literature.

296 Judaism. For other Semitic Religions, see 299.2.

297 Mohammedanism.

298 Mormonism. See 173.2, Polygamy.

299 Minor Non-Christian Religions.
Subdivided ethnically like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158.

Sociology.

300 Sociology in General.

301–309 all have Sociology in General as their subject, but it is treated in these various forms. A periodical on Education goes 370.5, not 305, which is only for periodicals on Sociology in General. In Sociology, most works in these forms are limited to one Division; e. g. to Political Economy, Education, Law, etc. All these have the same subdivision of General Works; i. e. Essays on the various divisions are 310.4, 320.4, 330.4, and so on to Essays on Manners and Customs in General, 390.4. A Zero in any class number shows the subject to be general, not specific.

301 Philosophy. Theories.
See Philosophy of History, 901.

302 Compends, Outlines.

303 Dictionaries, Cyclopedias, etc.

304 Essays, Lectures, Addresses.

305 Periodicals, Magazines, Reviews.

306 Societies, Transactions, Reports.

307 Education, Teaching, Study, etc. See also 370.

308 Polygraphy, Collected Works, Extracts, etc.

309 History of Social Science.

310 Statistics.

311 Theory, Methods. Science of.

312 Population. Progress of. Vital Statistics. Births. Deaths. Mortality. Longevity.
See also 614.1, Registration and vital statistics.
Statistics are divided geographically like 930–999; e. g. Population of Maine is 312.741.

313 Special Topics.

314 to 319 General Statistics. Divided geographically like 940–999.
The Statistics of any special matter are put with the subject, e. g. of Domestic Animals in 636, of Short Hand in 653, of French Novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. The Statistics of New York City would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine, i. e., the Topic outranks the Locality.

320 Political science.

.1, Theory of the state; .2, Compends, statecraft; .3, Dictionaries: .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History of political science, divided like 930-999.

321 Form of state.

This is for discussion of form of state, what should be; for what is, see 342, Constitutional law and 353-354, Administration.

.1 Family. Patriarchal age.
.2 Tribes. Clans. Marks. Village communities.
.3 Feudalism.
.4 Democracy. Pure; e. g. Athens, Town meeting.
.5 Aristocracy. e. g. Italian republics. Mediæval German cities.
.6 Absolute monarchy.
.7 Constitutional monarchy.
.8 Republic. Modern democracy, delegated powers.

322 Church and state. See also 172.3, State ethics; 261.7, The church.

323 Internal or domestic relations.

Free speech, Liberty of the press; see also 070, Newspapers; 179.1, Morals of the press.

324 Suffrage.

.1 Qualifications. Age. Property. Education. Color. Race, etc. See also 325.1, Naturalization.
.2 Forms of suffrage. Universal. Limited. Minority representation. Class system. Cumulative, etc.
.3 Woman suffrage. See also 396.3, Woman; 329.83, Woman suffrage party.
.4-9 In special countries. Divided like 940-999.

325 Colonies and immigration.

.1 Immigrants and naturalization.
.2 Emigrants. Divided by countries like 930-999.
.3 Colonization.
.4-9 In special countries. Divided like 940-999, by country in which planted.

326 Slavery. See also 973.7, Civil war; 371.94, Education of freedmen.

.1 Slave trade.
.2 Coolies and contract slaves.
3 Serfs and serfdom.
.4 Anti-slavery documents.
.5 " periodicals.
.6 " societies.
.7 Pro-slavery.
.8 Emancipation and freedom.
.9 History of slavery. Divided geographically like 930-999.
.92 Biography of slaves.

327 Foreign relations. Divided geographically like 930-999.

328 Legislative bodies and annals.

.1 Parliamentary law.
.2
.3
.4-9 Of special countries.
Divided by countries like 940-999, and under each, works may be divided: .1, Journals; .2, Debates; .3, Abstracts; .4, Documents; .5, Rules; .8, Legislative manuals; .9, History of bodies.

329 Political parties. Party conventions.

329.01, U. S. presidential campaign documents of all parties, arranged by campaigns.

.1 Federal.
.2 Anti-Federal.
.3 Democratic.
.4 Whig.
.5 American. Know-nothing.
.6 Republican.
.7
.8 Minor parties.
.81, Prohibition, see also 178.5, Ethics; .82, Greenback, see also 332.5, Paper money; .83, Woman suffrage, see also 324.3, Suffrage; .84, People's; .85, Labor, see also 331.8, Laboring classes.
.9 Parties in other countries. Divided geographically like 940-999.

330 Political economy.

.1, Theories; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .8, Polygraphy; .9, History.

331 Capital. Labor and wages.

.1 Relations of capital to labor.
.2 Wages. Comparative wages. Profit sharing. Compulsory insurance.
.3 Labor of children. See also 179.2, Cruelty to children.
.4 Labor of women. See also 396.5, Woman.
.5 Convict labor. Prison contracts. See also 365, Prisons.
.6 Pauper labor. Cheap foreign labor. Chinese.
See also 339, Pauperism; 362.5, Asylums.
.7 Skilled and unskilled labor.
.8 Laboring classes. See also 329.85, Labor party.
.81 Hours of labor.
.82 Places of labor. Dangers. See also 613.6, Hygiene; 622.8, Mining.
.83 Food. Clothes. Shelter. See also 640, Domestic economy.
.84 Morals and habits. Thrift. Temperance. Amusements. Temptations.
See also 170, Ethics; 790, Amusements; 263.6, Sunday.
.85 Helps. Lectures. Libraries. Reading-rooms, etc.
See also 374.5. Popular lectures; 020, Libraries; 263.7, Sunday.
.86 Training. Apprenticeship.
.87 Organization of labor.
.88 Trade unions and other labor societies. See also 338.6, Guilds.
.89 Strikes.

332 Banks. Money. Credit. Interest.

.1 **Banks and Banking.**
.11, National; .12, State; .13, Private; .14, Trust companies; .15, Foreign. See also 334.2, Co-operative banks.

.2 **Savings Banks.**

.3 **Loan Institutes.**

.31 Credit Institutes.
.32 Building Associations. See 334.1, Co-operation.
.33 Monts de Piété. Governmental.
.34 Pawn Shops. Private.

.4 **Coins and Coinage. Mints.**

.41 Coinage Metals. Production and Value. Gold. Silver. Nickel. Copper.
.42 Single and Double Standard.
.43 International Standards.
.44 Monetary Congresses.
.45 Comparative Value of Moneys.
.46 Mints.
.47 Coinage Laws.
.48
.49 History of Mints and Coinage. Divided geographically like 940–999.

.5 **Paper Money. Public and Private Notes.** See 329.82.

.6 **Stocks and Stock Exchanges. Bonds.**

.7 **Credit. Credit System.**

.8 **Interest and Usury.** See also 336.31, Public securities.

.9 **Counterfeiting. Forging.** See 343, Criminal Law.

333 Land. Ownership, Rights, and Rent.

See 338, Production; and 630, Agriculture.

.1 **State Ownership.**

.2 **Community Ownership.**

.3 **Private Ownership.**

.4 **Absentee Owners. Alien Owners.**

.5 **Rent of Land for Cultivation.**

.6 **" " Building.**

.7 **Forests.**

.8 **Mines.**

.9 **Fisheries.**

334 Co-operation.

.1 **Building Societies. Loans. Organization.** See also 332.32.

.2 **Co-operative Banks.** See also 332, Banks.

.3 **" Insurance Societies.** See also 368, Insurance.

.4 **" Housekeeping.** See also 640, Domestic economy.

.5 **" Consumptive Associations. Stores.**

.6 **" Productive Associations. Factories.**

.7 **Friendly Societies.**

.8 **Burial Societies.**

335 Socialism and Communism.

.01, Theory of property.

.1 **English Socialism.**

.2 **Saint Simonism.**

.3 **Fourierism.**

.4 **Communism.**

.5 **German Socialism. Social Democracy.**

.6 **State Socialism. Socialism of the Chair.**

.7 **Christian Socialism.**

.8

.9 **Socialistic Communities.**
Divided by countries like 930–999.

336 Finance.

.1 **State Domain and Properties.**

.11 Management and Income from Rents.
.12 Sale.
.13 Land Claims.
.14 Land Grants to Railroads, Colleges, etc. See also 379.12, Education.
.19 State Monopolies. e. g. French State Monopoly of Tobacco Trade. See also 338.8, Monopolies.

.2 **Taxation.**

.21 Direct.
.22 Real Estate.
.23 Personal.
.24 Income.
.25 Poll.
.26 Customs. Specific or Ad Valorem. See 337, Protection.
.27 Excise. Licenses. Liquor Dog. Legacies. Stamp Duties. See also 178.4.
.28 Local Taxes. See also 379.13, School funds.
.29 Assessment and Collection of Taxes.

.3 **Loans. Public Securities.**

.31 Interest-bearing Securities. See also 332.8, Interest.
.32 Floating Debt.
.33 Sinking Fund.
.34 Public Credit.
.35 Annuities.
.36 Repudiation.

.4–9 **Finance of Special Countries.** Divided geographically like 940–999.

337 Protection and Free Trade.

See also 336.26, Customs.

.1 **Absolute Free Trade. No Tariff.**

.2 **Free Trade, i. e. Tariff for Revenue only.**

.3 **Protection.**

.4 **Subsidies.**

.5 **Duties on Special Articles. Steel, Wool, etc.**

.6 **" " Raw Materials.**

.7 **" " Books and Works of Art.**

.8 **Duty Free Importation for Colleges, etc.** See also 021.9, Libraries

.9 **Reciprocity.**

338 Production. Manufacture. Prices.

.1 Agricultural products.
.2 Mining products. See also 332.41, Coinage metals.
.3 Water ,, Fish, ice, etc.
.4 Manufactured products. Machinery in industry.
.5 Prices.
.6 Guilds. See also 331.88, Trades unions.
.7 Corporate industries.
.8 Monopolies. See also 336.19, State monopolies.
.9 Industrial legislation. Divided geographically like 940–999.

339 Pauperism. See also 379.22, Illiteracy; 362.5, Pauper asylums; 331.6, Pauper labor.

340 Law.

General works.

Most periodicals belong in Private law, 347.05.

.1 Philosophy. Theories. Law of nature.
.2
.3 Antiquities. Torture. Trial by ordeal. Duel, etc.
.4 Trial by jury.
.5 Comparative legislation.
.6 Medical jurisprudence. See also 614.23, Expert testimony.
.7 Education. Law school. Office training.
.8 Polygraphy. Collections.
.9 Legal anecdotes and miscellany.

Public law.

341 International law.

.01, Philosophy; .02, Compends, etc., like 300.

.1 International congresses.

Of diplomatic agents for settling international relations. Congresses on special topics go with their subjects; e. g. 332.44, on Coinage.

.2 Treaties. Texts and history.

Divided by countries publishing, like 940–999.

.3 Law of war. Captives. Neutrals.
.4 International criminal law.
.5 International private law.
.6 Arbitration. and disarmament.
.7 Diplomacy.
.8 Consular systems.

342 Constitutional law and history.

Divided by countries like 930–999. Under each, works may be divided: 1, Texts of constitution; 2, Conventions; 3, Systems; 4, Essays; 8, Polygraphy; 9, History.
For Administrative law, see 350.

343 Criminal law.

.1 Criminal trials.
.2 Punishments.

Corporal. Death penalty. Hard labor. Confinement.

.3–9 Of special countries. Divided by countries like 930–999.

Under each country, works may be divided: 1, Penal codes; 2, Reports; 3, Criminal procedure; 4, Text books and manuals.

344 Martial law.

Private Law.

345 U. S. Statutes and Cases.

Divide each of the sections .1–.5, using 1, U. S.; 2, Individual states arranged alphabetically; e. g. Statutes at large of U. S., 345.19; Acts and resolves of Mass., 345.12.

.1 Session Laws.
.2 Codes. Revised Statutes.
.3 Law Digests (of Statutes).
.4 Reports.

Use .4, U. S. Supreme Court; .41, U. S. Circuit and District Courts; .415, Periodical collections of various states; e. g. Eastern Reporter, etc.; .42, Reports of individual states.

.5 Digests of Cases.

346 British Statutes and Cases.

Divided like 345. Includes all reports in English language except U. S. reports.

347 Treatises. American and English Private Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies, Bar associations; .08, Polygraphy; .09, History.
Put law of special topics with the subject; e. g. Insurance law, 368. The divisions .1–.8 may be disregarded and all English law text-books arranged in one alphabet by authors. An elaborate division, similar to Medicine, will be published after further revision.

.1 Persons. Legal Capacity.
.2 Realty.
.3 Chattels. Movables.
.4 Contracts.
.5 Torts.
.6 Family Law and Inheritance.
.7 Commercial and Maritime.
.8 Equity.
.9 Civil Trials. Procedure.
.91 Civil Trials.
.92 Pleading.
.93 Forms.
.94 Evidence. Testimony in general not limited to civil trials.
.95 Remedies.
.96 Justices of the Peace. Notaries. Sheriff.
.97 Organization of Courts.
.98 Jurisdictions.
.99 History of Special Courts.

348 Canon Law.

349 Foreign Law.

Divided like 930–999, and under each modern state divided like 345 with decimals .71 to .79 used for Treatises like 347. e. g. 349.4475 is French Law of Torts. 349.442 is French Code. Roman Law is divided:

.37 Roman Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History.

.371 Sources. Ante-Justinian.
.372 ,, Justinian.
.373 History and Criticism of Sources.
.374 Institutes. Ancient Roman Law.
.375 Pandects. Modern ,, ,,
.377 Treatises on Special Topics.
Divided like 347.

350 Administration.

Including Military science. .1, Theory; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History. A large number of the questions properly placed under Administration are classed with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject "Administration" and to provide for cross references by those specially interested. See also 342, Constitutional law and history.

351 Administration of Central Government.

.1 Organization of Civil Service.

Officers. Method of election or appointment. Official functions and powers. Mutual relations.

.2 Civil Lists.

.3 Examination.

.4 Tenure of Office. Discipline. See 351.92, Power of removal.

.5 Pensions.

.6 Reform. Spoils System vs. Office-holding Class.

.7 Subjects of Administrative Action.

See also 353, United States; 354, Foreign states.

.71 Financial Administration.

See 336, Finance, Public property, Taxation.

.72 Budget. Public Accounts.

.73 Internal Affairs.

See also 323, Domestic relations.

.74 Police Measures.

.75 Public Safety and Order.

See also 352.2, Police; 365, Prisons, etc.

1, Press.

2, Reunion and Association.

3, Weapons.

.76 Vice and Good Manners.

1, Liquor Regulation. See 178, Temperance.

2, Public Gaming. See 174.6, Ethics.

3, Public Begging, etc. See 339, Pauperism.

4, Prostitution. See 176.5, Ethics.

.77 Sanitary Police.

See 352.4, Boards of health; 614, Public health, etc.

.78 Accidents. See 614.8, Public health.

1, Buildings. See 614.85.

2, Fires. See 614.84.

351.8 Promotion of Public Welfare.

.81 Means of Communication.

See 380, Commerce, Communication.

1, Highways. See 386; 352.7, Local government.

2, Railways. See 385.

3, Waterways. See 386; 387.

4, Ferries.

5, Bridges. See 352.7, Local government.

6, Post Office. See 383.

7, Telegraphs. See 384.

.82 Trade and Industry.

1, Weights and Measures. See 389, Commerce.

2, Coinage and Money. See 332, Banks, Money.

3, Landed Industry.

Agriculture. See 630, Useful arts; 338.1, Production.

Forests. See 634.9, Agriculture; 333.7, Land.

Mines. See 622, Mining; 338.2, Production; 333.8, Land.

4, Commercial and Manufacturing Industry.

See 380, Commerce; 338, Production.

5, Institutions of Credit. See 332, Banks, Credit.

Savings Banks. See 332.2.

Mutual Benefit Societies. See 334, Coöperation.

Insurance. See 368; 334.3, Coöperative insurance.

Monts de piété. See 332.33.

.83 Labor. See 331, Capital, Labor, Wages.

.84 Public Charity.

See 339, Pauperism; 360, Associations and Institutions.

.85 Education and Worship.

1, Public Education. See 379, Education.

2, Public Libraries. See 027.4, Library economy.

3, Art Museums. See 708, Art.

7, Worship. See 322, Church and State.

Military and Naval. See 355-359, Army and Navy.

Justice. See 340, Law.

Foreign Affairs. See 341, International law; 327, Political science.

.9 Control over the Administration.

.91 Administrative Control.

By superior officers.

.92 Disciplinary Power.

Power of removal. See also 351.4, Tenure of office.

.93 Supervision.

Power to annul or amend specific acts.

.94 Judicial Control.

1, Ordinary Courts. See 347.5, Law of torts.

5, Criminal Courts. See 343, Criminal law.

.95 Administrative Courts.

.96 Parliamentary Control.

.97 Petitions and Addresses.

.98 Investigations.

.99 Impeachment.

352 Local Government. Town. City. County.

See also 379, Public schools; 020, Libraries.

General Questions of Municipal Administration.

.001 Growth and importance of cities.
.002 Cities and state control.
.003 City as a juristic person,—a corporation.
See also 347.1, Law of corporations.
.004 City organization, municipal elections.
.005 Municipal civil service.

Local Administration of Special Countries and Cities.

.03–.09, divided by countries like 930–999.

.042 Local Government in England.

Arrange matter relating to special cities alphabetically by name of city and subdivide the remaining works as follows:

1, County.
2, Municipal borough.
3, Parish.
4, Union. See 339, Pauperism.
5, Sanitary districts. See 614, Public health.
6, School districts. See 379, Education.
7, Highway areas. See 352.7.

.043 Local Government in Germany.

Special cities like 352.042.

1, Province. Landtag, Provincial Committee, Director.
2,
3, Circle, Circle Diet, Circle Committee, Landrath.
4, Commune.
5, Towns.
6, Township.

.044 Local Government in France.

Special cities like 352.042.

1, Department.
2, General council.
3, Departmental commission.
4, Prefect.
5, Arrondissement.
6, Commune.
7, Mayor.
8, Municipal council.

.1 Finances. City Property and Local Taxation.

See also 336, Finance.

.2 Police.

.3 Fire Department. See also 621.68, Fire engines; 614.84, Fires.

.4 Public Health. Board of Health. See also 614, Medicine.

.5 Public Buildings and Works.

.6 Water and Sewerage Works. See also 628, Sanitary engineering.

.7 Streets. Highways. Bridges. Parks.

.8 Licenses. Hack, Huckster, Entertainment, etc.

.9 Other Topics.

353 United States and State Government.

See also 342.73, Constitutional law and history.

.01, Administrative centralization.
.02, Separation of powers.
.03, President.
.04, Departments.
.05, Cabinet.

.1 State Department.

.2 Treasury " See also 336.73, Finance of U. S.

.3 Interior "

.4 Post Office " See 383.

.5 Judiciary "

.6 War " See 355, Army. Military science.

.7 Navy " See 359, Navy. Naval science.

.8 Other "

.9 State Government. Divided like 974–979.

Apply same decimals for State and Foreign Governments. For departments not here specified use .8 and .9, and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dept. of D. C. 353.97535.

353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th Regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.9747.

354 Organization of Central Government. Foreign States.

See also 342, Constitutional law and history.

Divided geographically by countries like 930–999. Under each country the U. S. divisions, .1, State, .2, Treasury, etc., may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Monarch.
04, Privy council.
05, Cabinet.

.43 Administration of Germany. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Empire.
04, Bundesrath.
05, Emperor.
06, Ministry.
07, States. Monarchs.
08, Landtag. Ministers. Council of state.
09, Free cities.

.44 Administration of France. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, President.
04, Ministers.
05, Council of state.

355 Army. Military Science. See 623, Military engineering.

Limited to military science, tactics, etc. For War department of U. S. or history of regiments, see 353.6 and 353.9. Divided by a 0, like 350.

356 Infantry.

357 Cavalry.

358 Artillery.

359 Naval Science. See 623.8, Naval engineering.

Divided by a 0, like 350.

360 Associations and Institutions.

This covers what is best known as "Charities and Corrections," and general works on this topic go in 360. Note. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London are 367.9421.

361 Charitable. See also 377.7, Charity schools.

362 Hospitals, Asylums, and Allied Societies.

For Inebriate asylums, see 178.6, Temperance reformatories.

.1 **Sick and Wounded. Incurables. Eye and Ear Infirmaries. Lying-in Hospitals. Dispensaries.**

.2 **Insane.** See also 132.1, Insanity.

.3 **Idiotic.** See also 132.2, Idiocy; 371.93, Education.

.4 **Blind. Deaf. Dumb.** See also 371.91 and 371.92, Education.

.5 **Paupers.** See also 339, Pauperism; 331.6, Pauper labor.

.6 **Aged.**

.7 **Children. Orphans. Foundlings.** See also 179.2, Cruelty, ethics.

.8 **Other.**

.9 **Special Countries.**

Divided like 930–999; e. g. 362.942 is Hospitals of England.

363 Political. Tammany, Primrose League, Ku Klux, etc.

364 Reformatory. Schools. Discharged convicts. Criminal classes.

365 Prisons. Discipline. See also 331.5, Convict labor.

366 Secret Societies. .1, Masons; .2, Knights of Pythias; .3, Odd Fellows; .4, Rosicrucians. See also 371.85, College secret societies.

367 Social Clubs.

368 Insurance. See also 334.3, Co-operative Insurance.

.1, Fire; .2, Marine; .3, Life, .31, Annuities; see also 336.35, Public annuities; 519.5, Probabilities; **.4, Accident; .5, Animal and Crop; .6, Plate Glass; .7, Boiler; .8, Credit and Bonds; Land Titles; .91, Government Control; Commissioners.** 93–99 divided geographically like 930–999; e. g. Insurance in New York (including state reports, etc.) is 368.9747.

369 Other. Cincinnati.

For subdivisions of this head see last (99) editor.

370 Education.

.1, Philosophy, Theory; .2, ; .3, Dictionaries, Cyclopædias; .4, Essays, Addresses; .5, Periodicals (for College Papers, see 378); .6, Societies, Associations; .7, Education, Teachers' Institutes, Normal Schools; .8, Polygraphy; .9, History. divided by countries, like 930–999.

371 Teachers, Methods, and Discipline.

.1 **Teachers.**

.11 Qualifications.

.12 Training.

.13 Examination. Certificates.

.14 Appointment. Tenure.

.15 Permanent Profession vs. Stepping-stone Theory.

.16 Salary and Promotion.

.17 Pensions for Teachers.

.18 Women as Teachers.

.19

.2 **School Organization.**

.21 Admission. Enrollment. Matriculation.

.22 Tuition Fees.

.23 Terms. Vacations. Holidays. See also 613.76 and 613.77, Hygiene.

.24 Hours. Recess.

.25 Classes. Grades.

.26 Marking System.

.27 Examinations. Oral, Written. Cramming. See also 428.9, Language.

.28 Promotions.

.29 Graduation. Diplomas.

.3 **Methods of Instruction.**

.31 Rote or Concert Teaching.

.32 Text Books. Recitations.

.33 Lectures.

.34 Developing or Inductive Method.

.35 Art of Questioning.

.36 Topical Method.

.37 Seminary Method.

.38 Laboratory Work.

.39 Other Methods. Correspondence.

.4 **Systems of Education.**

.41 Bell and Lancaster, or Monitorial.

.42 Fellenberg's or Manual Labor.

.43 Military Organization.

.44 Pestalozzian.

.45 Jacotot's.

.46 Fröbel's. See 372.2, Kindergarten.

.47 "Quincy System."

.5 **Government. Discipline.**

.51 Rules.

.52 Attendance. Truancy. Tardiness.

.53 Rewards. Prizes.

.54 Punishment.

.55 Corporal Punishment.

.56 Confinement. Tasks.

.57 Monitors.

.58 Moral Government. Alcott.

.59 Student Self-government.

371.6 **School Furniture and Apparatus.**

.61 Furniture.
.62 Lavatories, etc.
.63 Globes, Maps, etc. 912.
.64 Libraries. See 021.3. 027.8.
.65 Museums.
.66 Apparatus.
.67 Laboratories. 542.1.
.68 Observatories. 522.1

.7 **School Hygiene.** 613.

.71 Health of Students. Over-study.
.72 Care of Eyes. Effect of Study.
.73 Care of Body. Gymnastics. Calisthenics. See also 613.71, Hygiene.
.74 Recreations. Games, etc. See alsn 613.74, Play; 796, Out-door sports.
.75 Championship Games. Boat-races.
See also 175.7, Ethics; 613.73, Hygiene; 796, Out-door sports.
.79 Other Special Topics.

.8 **Student Life and Customs.**
See 784.6, College Songs; 378.29, College Costumes.

.81 Student Honor. Cribbing. Cheating. Keys. "Ponies."
.82 Fagging and Hazing.
.83 Student Organizations.
.84 Literary Societies.
.85 Secret Societies. See also 366, Secret sncieties. Chapters in special college go here with reference from the college.
.86 Society Houses. Halls. Temples, etc.
.87 Dormitories.
.88 Commons.
.89 Customs. Celebrations. Triumphs. Burnings, etc.

.9 **Education of Special Classes.**

.91 Blind. See also Asylums, 362.4; 655.
.92 Deaf and Dumb. See also Asylums, 362.4.
.93 Feeble-minded. See also 362.3, 132.2, 920.8.
.94 Freedmen. Negro.
.95 Indians.
.96 Orientals.
.97 Criminals. Reform Schools. See also 364, Reformatories.
.98 Special Nationalities. e. g. Germans in U. S.
.99 Co-education of Races.

372 Elementary Education. Primary Schools.

.1 **Special Methods of Government.**
.2 **Kindergarten.**
.3 **Observing Powers. Object Teaching. Science.**
.4 **Reading. Alphabet. Phonics and Word Methods.**
See also 428.6, Elementary readers.
.5 **Elementary Writing and Drawing.** See also 741.
.6 **Elementary Grammar. Language Lessons.** See also 428.2.
.7 **Elementary Arithmetic.** See also 511.
.8 **Elementary Geography.** See also 910.7.
Some may prefer to put these Elementary Text Books with their subjects, but a Primer of Geography is more useful to the Student of Elementary Schools and Methods than to one interested in Description, Travels, and Geography. Text books, except primary, go with the subject.

.9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; e. g. 372.942, English elementary schools.

373 Intermediate. Academic. Preparatory.

The discussions of theories, methods, etc., are classed regardless of the public support; but schools classed in 372.9, 373.4–9, 376.9, 377.3–7, and 378.4–9 are all private or endowed, except parts of Primary, schools for women, and colleges which, even supported by public funds, are preferably classed in 372.9, 376, and 378. All other "public" schools, i. e. paid for from the public treasury, are groupt under 379.4–9. Besides schools, such topics as "American students in Europe" go naturally in 373.4 or, if the topic be "European universities," in 378.4. Peabody & Slater funds go in 373.75.

.1 **Home Education. Tutor. Governess.**
.2 **Day Schools.**
.3 **Boarding Schools.**
.4–9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; 373.42, Higher English Schools.

374 Self-education and Culture.

.1 **Private Reading. Conversation.** See 028.
.2 **Reading Circles. Book and Periodical Clubs.**
.3 **Lyceums. Literary Clubs.**
.4 **Debating Societies.**
.5 **Popular Lectures.**
.6 **Popular Summer Schools.**
See also 407, 507, for Schools of Science, etc., for specialists, which are classed with their subject not with these popular gatherings.
.7 **Chautauqua Courses.**
.8 **Societies for Home Study, Correspondence Colleges.**
.9 **Institutions. e. g. Cooper Union.**

375 Curriculum.

.01, Order of Studies; .02, Single Course; .03, Parallel Courses; .04, Optional Studies: .1–.9, Special Studies, in the order and subdivided like 100–999. e. g. 375,5, Place of Science in Curriculum; 375.82, Place of English Literature; use 375.84 also for General Questions ou Modern Languages, and 375.88 for Classics.

376 Education of Women. 396.4.

.1 **Physical Capacity of Women.**
.2 **Mental Capacity of Women.** See 136.1.
.3 **Domestic Education.**
.4 **Fashionable Education.**
.5 **Conventual Education.**
.6 **Collegiate Education.**
.7 **Co-education.**
.8 **Colleges for Women.** Degree conferring colleges go here. All other schools for women go in 376.9.
.9 **Special Countries and Schools. History. Reports, etc.**
Subdivided like 940–999; 376.943, Education of women in Germany.

INTENTIONAL SECOND EXPOSURE

371.6 **School Furniture and Apparatus.**

.61 Furniture.
.62 Lavatories, etc.
.63 Globes, Maps, etc. 912.
.64 Libraries. See 021.3. 027.8.
.65 Museums.
.66 Apparatus.
.67 Laboratories. 542.1.
.68 Observatories. 522.1

.7 **School Hygiene.** 613.

.71 Health of Students. Over-study.
.72 Care of Eyes. Effect of Study.
.73 Care of Body. Gymnastics. Calisthenics. See also 613.71, Hygiene.
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.83 Student Organizations.
.84 Literary Societies.
.85 Secret Societies. See also 366, Secret societies. Chapters in special college go here with reference from the college.
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.87 Dormitories.
.88 Commons.
.89 Customs. Celebrations. Triumphs. Burnings, etc.

.9 **Education of Special Classes.**

.91 Blind. See also Asylums, 362.4; 655.
.92 Deaf and Dumb. See also Asylums, 362.4.
.93 Feeble-minded. See also 362.3, 132.2, 920.8.
.94 Freedmen. Negro.
.95 Indians.
.96 Orientals.
.97 Criminals. Reform Schools. See also 364, Reformatories.
.98 Special Nationalities. e. g. Germans in U. S.
.99 Co-education of Races.

372 Elementary Education. Primary Schools.

.1 **Special Methods of Government.**
.2 **Kindergarten.**
.3 **Observing Powers. Object Teaching. Science.**
.4 **Reading. Alphabet. Phonics and Word Methods.**
See also 428.6, Elementary readers.
.5 **Elementary Writing and Drawing.** See also 741.
.6 **Elementary Grammar. Language Lessons.** See also 428.2.
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.9 **Special Countries and Schools. History, Reports, etc.**
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The discussions of theories, methods, etc., are classed regardless of the public support; but schools classed in 372.9, 373.4–9, 376.9, 377.3–7, and 378.4–9 are all private or endowed, except parts of Primary, schools for women, and colleges which, even supported by public funds, are preferably classed in 372.9, 376, and 378. All other "public" schools, i. e. paid for from the public treasury, are groupt under 379.4–9. Besides schools, such topics as "American students in Europe" go naturally in 373.4 or, if the topic be "European universities," in 378.4. Peabody & Slater funds go in 373.75.

.1 **Home Education. Tutor. Governess.**
.2 **Day Schools.**
.3 **Boarding Schools.**
.4–9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; 373.42, Higher English Schools.

374 Self-education and Culture.

.1 **Private Reading. Conversation.** See 028.
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See also 407, 507, for Schools of Science, etc., for specialists, which are classed with their subject not with these popular gatherings.
.7 **Chautauqua Courses.**
.8 **Societies for Home Study, Correspondence Colleges.**
.9 **Institutions. e. g. Cooper Union.**

375 Curriculum.

.01, Order of Studies; .02, Single Course; .03, Parallel Courses; .04, Optional Studies; .1–.9, Special Studies, in the order and subdivided like 100–999. e. g. 375,5, Place of Science in Curriculum; 375.82, Place of English Literature; use 375.84 also for General Questions on Modern Languages, and 375.88 for Classics.

376 Education of Women. 396.4.

.1 **Physical Capacity of Women.**
.2 **Mental Capacity of Women.** See 136.1.
.3 **Domestic Education.**
.4 **Fashionable Education.**
.5 **Conventual Education.**
.6 **Collegiate Education.**
.7 **Co-education.**
.8 **Colleges for Women.** Degree conferring colleges go here. All other schools for women go in 376.9.
.9 **Special Countries and Schools. History. Reports, etc.**
Subdivided like 940–999; 376.943, Education of women in Germany.

377 Religious, Ethical, and Secular Education.

.1 **Bible in public schools.**

.2 **Ethical education.** See also 170.7, Ethics.

.3 **Monastic schools.** See also 271, Monastic orders.

.4 **Diocesan schools.**

.5 **Parochial schools.** See 257.

.6 **Missionary schools.** See 266.

.7 **Charity schools.** See also 361, Charitable institutions.

.8 **Church and education.** See also 261.5, Church.

Subdivided like 280; e. g. 377.82, Relation of Roman Catholic church to education.

.9 **Non-Christian religions and education.**

Subdivided like 290; e. g. 377.97, Relation of Mohammedanism to education.

378 Colleges and Universities. With power of conferring degrees.

.1 **University Education.**

.2 **Academic Degrees and Costume.** See 614.21, Medical degrees.

.21 Degree-conferring body. College, University, or State.
.22 Graded degrees. Cum laude, etc.
.23 Degrees in course.
.24 Degrees on examination.
.25 Honorary degrees.
.26 Degrees by purchase or forgery.
.27
.28
.29 Academic gowns and hoods.

.3 **Fellowships. Endowment of research.**

.4-9 **Special countries and colleges. History, reports, etc.**

For Women's colleges, see 376.8.
Subdivided like 940–999. e. g. 378.42, English universities; 378.741, Maine colleges.
The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figure) used to designate the college; e. g. a history of Harvard college would be marked 378.744 — HE, and a second history would be book numbered HE1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers.

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS.

A Charter and Statutes.
B Trustees. Regents. Resolutions, reports, etc.
C Administration. President, Chancellor. Reports, etc.
D Finances. Treasurer's reports.
E History. Foundation, growth, etc.
F Biography. Necrology.
G General Catalogs. Triennials, etc.
H Annual Catalogs. Attendance, registers, etc.
I Handbooks. Circulars of information.
J Bulletins. Official periodicals.
K Addresses. Inaugurals. Baccalaureates. Commencements, etc.
L Programs. Tickets. Memorabilia.
M Faculty (as a body). Publications. Regulations, etc.
N Lectures. Class manuals. Examination questions.
O Student theses. Orations, essays, etc.
P Student catalogs. Society annuals, etc.
Q Student periodicals.
R Student societies, including periodicals.
S Student miscellany. Songs. Class day, etc.
T Alumni. Societies, committees, etc.
U Classes. Histories, records, etc.
V Pictures. Class albums.
W Buildings and grounds. Descriptions, maps, etc.
Z Schools. Divinity, law, medical, etc.

379 Public schools. State education.

.1 **Public school system.**

.11 School funds.
.12 National aid to education. Land grants. See also 336.14, Finance.
.13 Local Taxation. See also 336.28, Taxation.
.14 School laws. School age.
.15 School supervision; National, state, and local. Duties of parents.
.16 National and State Universities.
Only discussion here; for special colleges, see 378.4-9.
.17 Secondary schools. High schools. Academies. Grammar schools.
.18 Primary schools.
.19 Evening schools.

.2 **Illiteracy.**

.21 Illiteracy and Crime.
.22 Illiteracy and Pauperism. See also 339, Pauperism.
.23 Compulsory education.
.24

.3 **Public vs. private and endowed schools.**

.4-9 **Special countries, sections, cities or schools.**

Subdivided like 940-999. e. g. 379.73, Reports of U. S. Commissioner of Education; 379.74, Education in Massachusetts; 379.7471, in New York City.

380 Commerce, Communication.

The technical side of these questions goes mostly in 650, Useful Arts. Here belong discussions of social and political relations; e. g. government control of railroads, telegraphs, etc. Communication 381-973

381 Domestic Trade.

382 Foreign Trade. Consular reports.

383 Post Office. See also 353.4, U. S. administration.

384 Telegraph. Cable. Telephone. See 654.

385 Railroad and Express. See 656, Railroading.

386 Canal and Highway Transportation. "

387 River and Ocean Transportation. "

388 City Transit. See 625.

389 Weights and Measures. Metrology. See 658.

390 Customs. Costumes. Popular Life.

These heads are for discussions by topic. Customs, etc., of any special country go in 913–919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese Customs, 915.2. For Customs of Primitive Man, see 571.

391 Costume and Care of Person. See 646, Clothing; 613.4, Hygiene.

- .1 Costumes of Men.
- .2 Women.
- .3 Children.
- .4 Extremities. Hats, Gloves, Sandals, Shoes, Stockings, etc.
- .5 Hair Dressing, Barbers.
- .6 Care of Person, Bathing, Toilet.
- .7 Ornaments and Jewelry.
- .8

392 Birth, Home, and Sex Customs.

- .1 Birth Customs, Christening, Circumcision.
- .2 Sacrifice and Exposure. See 173.4, Ethics.
- .3 Family and Home Relations.
- .4 Betrothal.
- .5 Marriage.
- .6 Sex Relations, Concubinage.
- .7 Totemism

393 Treatment of the Dead. See 614.6, Public Health.

- .1 Earth Burial. See 719, Cemeteries.
- .2 Cremation.
- .3 Embalming, Mummies.
- .4 Exposure.
- .9 Special Funeral Customs. Wake, Suttee.

394 Public and Social Customs.

- .1 Eating, Banquets.
- .2 Shows and Diversions.
- .3 Games, Dances, etc.
- .4 Ceremonies.
- .5 Processions.
- .6 Fairs.
- .7 Chivalry, Tournaments.
- .8 Duelling, Suicide.

See 179.7, Ethics; 340.3, Law, Trial by Ordeal.

395 Etiquet.

396 Woman's Position and Treatment.

For Costumes, see 391.2; Biography, 920.7.

If a special library about women is wished, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc., but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of Women, from the rest of medicine. Books on woman in general go in 396.

.1 **Emancipation.**

.2 **Legal Status, Property, Rights, etc.**

.3 **Political Status.** See 324.3, Suffrage; 329.83, Woman Suffrage Party.

.4 **Education.** See also 376, Education of Women.

.5 **Employment.** See 331.4, Labor of Women; 371.18, Teachers.

Divided like General Classification; e. g. Woman as scientist, 396.55; woman as painter, 396.575; woman as author, 396.58, etc.

.6 **Woman in Home.**

.7 **Delineation of Woman in Art.**

.8 **Delineation of Woman in Literature.**

.9 **Woman in History, Politics, War. Amazons.**

397 Gipsies. Nomads. Outcast Races.

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which has no place io the linguistic groups of 400, as the Gipsy people have no place in the geographical divisions of history.

398 Folk-lore. Proverbs, etc. See also 291-3, Mythology.

This section is for material needed in studying Folk-lore. Mere Stories for Children, unless having a value to students of Folk-lore, go in 823, or in J, if there be a Juvenile collection.

.1 **Primitive Traditions.**

.2 **Legends.**

.3 **Folk-lore.**

.4 **Fairies, Elves etc.**

.5 **Chapbooks.**

.6 **Riddles.**

.7 **Dream Books.**

.8 **Song Books.** Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folk-lore, etc.

.9 **Proverbs.**

399 Customs of War.

Weapons. War Dances. Treatment of Captives. Scalping. Mutilation. Burning. Cannibalism.

Philology.

400 Philology in General.

In Philology the general works put under 400–419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479, and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group.

401 Philosophy, Origin of Language.

402 Compends, Outlines.

403 Dictionaries, Cyclopedias.

404 Essays, Lectures, Addresses.

405 Periodicals.

406 Societies, Transactions, etc.

407 Education, Teaching Languages. .50 Oratory, 408.60 Rhetoric .61 Paragraphs.

408 Polygraphy, Collections.

.9 **Universal Language.** .91 **Volapük.** 70 letter writing

409 History of Language.

410 Comparative.

410–419 includes *comparative* works in *general* and also those on the Indo-European group in general, but general *and comparative* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language.

411 Orthography, Orthoepy, Alphabets.

412 Etymology, Derivation.

413 Dictionaries, Lexicography.

414 Phonology. Visible Speech.

415 Grammar, Morphology, Syntax.

416 Prosody.

417 Inscriptions. Palæography. See 421.7. 471.7, 481.7, etc.

Rare early mss. are put in 091.

418 Texts.

419 Hieroglyphics. See 493.1.

.1 **Sign Language.** For deaf mute alphabets, see 371.92.

INTENTIONAL SECOND EXPOSURE

396 Woman's Position and Treatment.

For Costumes, see 391.2; Biography, 920.7.

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416 Prosody.

417 Inscriptions. Palæography. See 421.7, 471.7, 481.7, etc.

Rare early mss. are put in 091.

418 Texts.

419 Hieroglyphics. See 493.1.

.1 **Sign Language.** For deaf mute alphabets, see 371.92.

420 English Philology.

.1, Philosophy; .2, Compends; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collective Works; .9, History of the Language.

421 Orthography.

See also this head treated in general grammars placed under 425.

.1 Alphabet. For Deaf Mute Alphabets, see 371.92.
.2 Vowels. Diphthongs. Aspirates.
.3 Consonants.
.4 Phonetic Spelling. Spelling Reform.
.5 Orthoepy.
.6 Accent.
.7 Palæography. Inscriptions.
.8 Abbreviations. For Stenographic and other uncommon contractions and abbreviations, see 653, Shorthand.
.9 Punctuation.

422 Etymology. Derivation.

422 is limited to Derivation. For Inflection, also called Etymology, see 425.1.

.1 Origin and Laws of Language.
.2 Prefixes. Suffixes.
.3 Reduplication.
.4 Foreign Elements.
.5 Noun Forms. Case, Number, Diminutives.
.6 Adjectival Forms. Degrees of Comparison.
.7 Pronominal Forms. Personal, Possessive, Relative, etc.
.8 Verbal Forms. Moods, Tense, Voice, etc.
.9 Particles. Adverbs, Prepositions, etc.

423 Dictionaries. Idioms.

.1, Idioms; .2, English; .3, German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i.e. that by which it is alphabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tongues is more convenient. References in either case show what may be found in the other place.

424 Synonyms. Homonyms.

425 Grammar.

425 includes General Works, covering also Orthography and Prosody.

.1 Morphology. Inflection. Divided, .5.Nouns, etc. See 422.
.2 Syntax.
.3 Arrangement of Words and Clauses.
.4 Particular Sentences; Conditional, Hypothetical, etc.
.5 Nouns.
.6 Adjectives. Articles.
.7 Pronouns.
.8 Verbs.
.9 Particles.

426 Prosody.

See also the head Prosody, in General Grammars 425.

.1 Quantity and Accent.
.2 Versification.
.3 Feet.
.4 Figures of Prosody.
.5 Meters.
.6 Rhymes.
.7 Strophe and Antistrophe.
.8 Textbooks for Writing Verse.
.9

427 Dialects. Early Forms of Language. Slang.

Subdivided by geographical divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect, 427.41. The dialects of other languages take the geographical subdivisions of their countries. Dialects not provided for in these heads are placed with the last, e. g. American and Scotch with 427.9. The division by time is made with a fifth figure after 0; the earliest form of the language is marked .01; .09 is used for modern slang, e. g. 427.01, Old English.

428 School Books. Texts for Learning the Language.

Including only books for *learning* the lauguage, with grammatical or philological notes, etc. For other works see the literature of the language, 820.

.1 Spelling Books.
.2 First Lessons. Elementary Composition. For Rhetoric see ~~808~~. 408.60
Including in other languages books like Fasquelle, Ollendorff, Latin Prose, etc.
See also 372.6, Elementary Grammars.
.3 Errors of Speech. Vulgarisms. Use of Words.
See 427.09, Slang; 424, Synonyms.
.6 Elementary Readers. See also 372.4, Education.
.7 Selections.
.8 Texts of Individual Authors.
.9 Examination Papers.

429 Anglo-Saxon.

The above subdivisions of English are used for all other languages and for 410, Comparative Philology.

All Languages are subdivided like 420 English.

430 German.

437.01, Old High German; 437.02, Middle High German.

439 Minor Teutonic. Including general works on Teutonic group.

.1 Low German.

.2 Frisian. Old Saxon.

.3 Dutch. Flemish.

.4 Platt Deutsch.

.5 Scandinavian.

.6 Old Norse. Icelandic. Faroese.

.7 Swedish.

.8 Danish. Norwegian.

.9 Gothic.

440 French.

449 Provençal

Old French, as the earliest form of the language, is 447.01.

450 Italian.

459 Wallachian.

.9 Rumansh.

460 Spanish.

469 Portuguese.

470 Latin.

479 Minor Italic. Mediæval Latin.

Including general works on Romance group.

480 Greek.

Divide 487, Greek Dialects, like 930; e. g. 487.2, Alexandrian Greek; 487.3, New Testament Greek; 487.81, Macedonian; 487.923, Ionic, etc.

489 Minor Hellenic. Modern Greek.

Including general works on Hellenic group.

Works on Latin and Greek together, unless very clearly most useful in the Latin, go with the Greek, which here as elsewhere is made to include general works on the ancient classics.

490 Minor Languages.

Each language subdivided if wished like 420 English.

491 Minor Indo-European.

(Beside Teutonic, 420–439, Italic, 440–479, and Hellenic, 480–489.) This head, 491, includes general works on the Indo-European tongues, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also 410.

.1 Indic.

.2 Sanskrit. Prakrit.

.3 Pali.

.4 Modern East Indian Languages.

Excluding Dravidian, which is 494.

.41 Sindhi.

.42 Panjabi.

.43 Hindustani. Hindi.

.44 Bengali.

.45 Uriya. Orissa.

.46 Marathi.

.47 Gujerati.

.48 Singhalese.

.49

.5 Iranic.

.51 Old Persian.

.52 Zend. (Avestan.) Old Bactrian.

.53 Pehlevi. (Huzwaresh.)

.54 Armenian.

.55 Modern Persian.

.56 Ossetic.

.57 Kurdish.

.58 Afghani.

.59

.6 Keltic.

.61 Gadhelic Group.

.62 Irish.

.63 Gaelic or Scotch.

.64 Manx.

.65 Cymric Group.

.66 Welsh or Cymric.

.67 Cornish.

.68 Armorican or Bas Breton.

.69 Basque.

.7 Russian.

.79 Ruthenian.

491.8 **Other Slavonic.**

South East Slavonic Group.

.81 Bulgarian. (Church Slavonic.)
.82 Servian.
.83 Kroatian.
.84 Slovenian.

West Slavonic Group.

.85 Polish.
.86 Bohemian.
.87 Moravian. Slovakian.
.88 Sorbian.
.89 Polabian.

.9 **Lettic.**

.91 Old Prussian.
.92 Lithuanian.
.93 Lettish. (Livonian.)

492 Semitic.

Northern Group.

.1 **Aramaic.**

.19 Babylon and Nineveh Cuneiform.

.2 **Chaldee.**

.3 **Syriac.** (Peshito.)

Central Group.

.4 **Hebrew.**

.5 **Samaritan.**

.6 **Phenician.** (Carthaginian.)

Southern Group.

.7 **Arabic.**

.8 **Ethiopic.** (Amharic.)

.9 **Himyaritic.**

493 Hamitic.

.1 **Old Egyptian.** See 419 Hieroglyphics.

.2 **Coptic.**

494 Scythian. Ural-Altaic. Turanian.

Dravidian. Tamil. Finnish. Turkish.

495 Eastern Asiatic. Chinese.

496 African.

Excluding 493 Hamitic, 492.8 Ethiopic, etc., included in families above.

497 North American.

498 South American.

499 Malay-Polynesian and other.

The Gypsy language is not assigned to any group, but is placed for convenience with 397, Gypsies.

Natural Science.

500 Science in General.

501-509 all have *Science in General* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

501 Philosophy, Theories, Utility, etc.

502 Compends, Outlines, Ancient and Mediæval. Science.

503 Dictionaries, Cyclopedias, etc.

504 Essays, Lectures, Addresses.

505 Periodicals, Scientific Magazines.

506 Societies, Transactions, etc.

507 Education, Methods of Teaching and Studying, etc. Museums. See also 370.

508 Polygraphy, Collected Works, Extracts, etc.

.1, Extracts; .2, ; .3, General scientific travels; .4—.9, Travels and surveys (if general) divided geographically like 940–999.

509 History of Science.

510 Mathematics.

Works on Mathematics in General, not limited to any one or two sections, are grouped by form of treatment like Science in General above; *i. e.*, into Mathematical.

510.1, Philosophy; .2, Collections, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Education; .8, Logarithmic and other Tables, Instruments; .9, History.

511 Arithmetic. See 372.7, Teaching arithmetic.

.1 **Systems of Arithmetic.** See also 512.81.

.2 **Notation and Numeration. Fundamental Rules. Abacus.**

.3 **Prime Numbers.**

.4 **Fractions.**

.5 **Analysis. Permutation and Combination.**

.6 **Proportion and Progression.** .61, Magic Squares.

.7 **Involution and Evolution.**

.8 **Mercantile Rules. Interest. Alligation. Mensuration. Gauging.** See 658, Business manuals.

.9 **Problems and Tables.**

512 Algebra.

.1 **Systems of Algebra.**

.2 **Numerical Equations. Imaginary Expressions.**

.21 Equations, 1st to 4th degrees.
.22 Higher Numerical Equations.
.23 Indeterminate Equations. Diophantine Analysis.
.24 Imaginary Expressions.

.3 **Algebraical Equations. Maxima and Minima.**

.4 **Series. Fractions. Binomial Theorem. Taylor's Theorem.**

.5 **Combinatory Analysis.**

.6 **Proportion and Progression.**

.7 **Involution and Evolution.**

.8 **Higher Algebra.**

.81 Theory of Numbers. See 511.1, Systems of Arithmetic.
.82 Theory of Equations. Complex Variable. See also 517.8.
.83 Determinants.
.84 Symmetric Functions.
.85 Elimination. Eliminants and Discriminants.
.86 Transformations. Substitutions.
.87 Quantics.
88 Invariants. Covariants. Contravariants.
.89

.9 **Problems and Tables.**

513 Geometry.

Plane and Solid Geometry bound together is put 513. Descriptive Geometry is 515. See also Mathematical Drawing, 744.

.1 **Plane Geometry.**

.11 Right Lines.
.12 Intersecting Lines.
.13 Parallel Lines.
.14 Triangles.
.15 Quadrilaterals.
.16 Other Polygons.
.17 Similarity.
.18 Areas.
.19 Maxima and Minima

.2 **Curves.**

.21 Circles.
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

513.3 **Volumetric or Solid Geometry.**

.31 Lines and Planes.
.32 Intersecting Planes.
.33 Parallel Planes.
.34 Polyedrons.
.35 Pyramids.
.36 Prisms.
.37 Regular.

.4 **With Curved Surfaces.**

.41 Sphere.
.42 Cone.
.43 Cylinder.

.5 **Modern Geometry.**

.51 Points. Lines. Planes. Duality.
.52 Transversals.
.53 Cones. Conics. Involution.
.54 Radical Axes and Centres of Similitude.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Correspondence. Correlation of Figures.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvature.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 **Absolute or Non-Euclidean Geometry.**

.9 **Problems.**

514 Trigonometry.

.1 **Trigonometric Functions. General Formulæ.** See 522.7.

.2 **Trigonometric Series.**

.3 **Exponential Formulæ.**

.4 **Solution of Trigonometric Equations.**

.5 **Plane Trigonometry. Solution of Plane Triangles. Analytical.**

.6 **Spherical Trigonometry. General Formulæ.**

.7 **Solution of Spherical Triangles.**

.8 **Differences of Triangles, Plane and Spherical.**

.9 **Problems.**

515 Descriptive Geometry and Projections.

See also 744, Mathematical drawing.

.1 Orthogonal Projection on Two Planes.

.11 Straight Lines. Planes.
.12 Single Curved Lines.
.13 Double Curved Lines.
.14 Single Curved Surfaces.
.15 Double Curved Surfaces.
.16 Surfaces of Revolution.
.17 Warped Surfaces.
.18 Intersections of Surfaces.

.2 Isometric and Analogous Projections.

.3 Oblique Projection.

.4 Conical Projection.

.5 Spherical Projection. See 526.8, Map projection.

.51 Orthographic.
.52 Globular.
.53 Stereographic.
.54 Polar.
.55 Gnomonic.
.56 Conical.
.57 Cylindric.

.6 Perspective. See also 742, Drawing.

.61 Plane. Parallel. Oblique. Angular.
See also Scene Painting.
.62 Cylindrical.
See also Panorama Painting.
.63 Shadows; Natural and Artificial Light.
.64 Reflections.
.65 Circles, Cylinders and Spheres.
.66 Distortions and Corrections.
.67 Human Figure.
.68 New Methods. Special devices.

.7 Shades and Shadows.

.8 Stereotomy.

.81 Stone Cutting. See also 693.12, Masonry; 730, Sculpture.
.82 Carpentry. See also 694, Building.
.83 Stair Building. See also 694.8, Building; 729.39, Architectural design.

516 Analytical Geometry.

CARTESIAN.

.1 Plane Loci.

.11 Right Lines.
.12
.13
.14 Transformation of Co-ordinates.

.2 Curves.

.21 Conic Sections.
.22 Ellipse.
.23 Hyperbola.
.24 Parabola.
.25 Higher Plane Curves.
.26

.3 Loci in Space.

.31 Right Lines.
.32 Planes.
.33
.34 Transformation of Co-ordinates.

.4 Curved Surfaces.

.41 Conicoids or Quadric Surfaces.
.42 Ellipsoid.
.43 Hyperboloid.
.44 Paraboloid.
.45 Surfaces of Higher Order.
.46

.5 Modern Analytical Geometry.

.51 Systems of Co-ordinates.
.52 Abridged Notation.
.53 Conics.
.54 Higher Plane Curves.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Method of Projection.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvatures.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 Quaternions. Calculus of Direction and Position

.9 Problems.

517 Calculus.

.1 **Infinitesimal. Method of Exhaustions.**
Differential and Integral Calculus, *bound together*, is put here.

.2 **Differential.**

.21 Series.
.22 Indeterminate Forms.
.23 Change of the Independent Variable.
.24 Theory of Plane Curves. Curve Tracing.
.25
.26 Theory of Curved Surfaces.
.27 Maxima and Minima.
.28
.29 Problems.

.3 **Integral.**

.31 Formulæ of Reduction and Integration.
.32 Definite Integrals. Eulerian Integrals.
.33 Rectification. Quadrature. Cubature.
.34 Multiple Integrals.
.35 Laplace's Functions. Bessel's and Allied Functions.
.36 Elliptic and Hyperelliptic Functions. Abelian Functions.
.37
.38 Differential and Partial Differential Equations.
.39 Problems and Tables.

.4 **Of Variations.**

.5 **Of Functions.**

.6 **Of Finite Differences.**

.7 **Of Operations**

.8 **Of Imaginaries. Complex Variables.** See also 512.82.

.9 **Problems.**

519 Probabilities.

.1 **General Principles. Direct and Inverse Probabilities.**

.2 **Mathematical and Moral Expectation.**

.3 **Testimony. Decisions of Juries and Tribunals.**

.4 **Probability of Future Events deduced from Experience.**

.5 **Life Contingencies. Annuities. Life Insurance.** See 368.3

.6 **Errors of Observation. Mean or Average Values.**

.7

.8 **Method of Least Squares.**

.9 **Problems.**

520 Astronomy.

520.1, Astrology; 520.2, Compends; 520.3, Dictionaries; 520.4, Essays; 520.5, Periodicals; 520.6, Societies; 520.7, Study and Teaching of Astronomy; 520 8, Collections, etc.; 520.9, History of Astronomy. See Note under Natural Science in General, 500-509.

521 Theoretical Astronomy.

Mathematical investigation of celestial motions, specially of the Solar System. The motions of individual bodies are classed under separate heads in 523.

.1 **Celestial Dynamics.**

.11 General Laws of Equilibrium and Motion. See also 531.2.
.12 Law of Universal Gravitation and Motion Relative to the Sun. See also 531.51.
.13 Problem of Three Bodies.
.14 Figures of Heavenly Bodies.
.15 Rotation of Heavenly Bodies.

.2 **Geocentric and Heliocentric Place.**

.21 Plane of Orbit in Space.
.22 Position of Orbit in its Plane.
.23 Position of Body in its Orbit.
.24 Position of Body in Space.
.25 Heliocentric Longitude and Latitude.
.26 Geocentric Longitude and Latitude.
.27 Variations of Right Ascension and Declination.
.28 Variations of Longitude and Latitude.
.29

.3 **Orbits.**

.31 Definitions of Orbits.
.32 Determination from Three Observations.
.33 Determination from Four Observations.
.34 Variation of Elements of Orbit.
.35 Correction of Approximate Elements of Orbit.
.36 Application of Method of Least Squares.
.37 Kepler's Problem.
.38 Equation of Center and Radius Vector.
.39

.4 **Perturbations.**

.41 Mutual Action of Planets.
.42 Action of Satellites.
.43 Non-Sphericity of Planets.
.44 Resisting Medium.

.5 **Theory of Planets.**

.6 **Theory of Satellites.**

.7 **Theory of Comets.**

.8 **Theory of Eclipses.**

.9 **Precession and Nutation.** See 522.95-6.

522 Practical and Spherical.

.1 Observatories.

.11 General Plan, Location
.12 Material and Mechanism of Dome, Drum, etc
.13 Transit Buildings, Wings, etc.
.14 High Altitude Observatories.
.15 Portable.
.16
.17
.18
.19 History Reports and Serial publications of Observatories.

.2 Telescopes. See 535.83, Optics.

.21 Reflecting.
.22 Refracting.
.23 Eye Piece and Accessories.
.24 Object Glass.
.25 Mounting, Tube, etc.
.26 Equatorial Mounting.
.27 Transit Mounting.
.28 Observing Chairs, etc.
.29 Famous Telescopes.

.3 Meridional Instruments.

.31 Finding Meridian Line.
.32 Mural Circles.
.33 Meridian Circles.
.34 Transit, Placing in Position.
.35 Collimation Constant
.36 Level Constant.
.37 Azimuth Constant.
.38 Other Constants, Flexure, Index Error, etc.
.39

.4 Extra Meridional Instruments.

.41 Sextant and Quadrant, Reflecting Circle, Astrolabe
.42 Alt-azimuth.
.43 Zenith Telescope.
.44 Transit out of Meridian.
.45 Heliometer.
.46 Equatorial.
.47 Prime Vertical.
.48
.49

522.5 Auxiliary Instruments.

.51 Sidereal Clock and Chronometer.
.52 Electro-Chronograph.
.53 Micrometers.
.54 Personal Equation Machine. See 522.97.
.55 For Illumination.
.56 For Solar Observation.
.57 Artificial Horizons.
.58 Heliostat.
.59

.6 Auxiliary Observations.

.61
.62 Photometry. See 535.2, Optics.
.63 Photography. See 535.85, Optics; 770, Photography.
.64
.65 Polarization. See 535.5, Optics.
.66
.67 Spectroscopy. See 535.84, "
.68
.69

.7 Spherical Astronomy. See also 514.6.

.71 Celestial Sphere. Spherical Co-ordinates.
.72 Rectangular Co-ordinates.
.73 Transformation of Co-ordinates.
.74 Differential Variations of Co-ordinates.
.75 Interpolation.
.76 Meridian Line. Variation of Compass.
.77 Reduction of Observations to the Meridian.
.78 Use of Globes.
.79

.9 Corrections.

.91 Parallax.
.92 Refraction. See 535.3, Optics.
.93 Semi-Diameter of Celestial Bodies.
.94 Aberration.
.95 Precession. See 521.9
.96 Nutation. " "
.97 Personal Equation. See 522.54.
.98 Instrumental Errors.
.99

523 Descriptive Astronomy.

.1 Universe.

.11 Structure of Universe.
.12 Nebular Hypothesis.
.13 Plurality of Worlds.
.14 Space and its Temperature.
.15 Resisting Medium.
.16 Cosmic Dust.
.17 Repulsive Force.

.2 Solar System.

.21 Distributive Laws of Planets.
.22
.23 Conjunctions and Oppositions.
.24 Motion of Solar System in Space.
.25 Constitution of Planetary System.
.26 Stability of Solar System. Ecliptic.
.27
.28 Orrery, Planetarium, Gyroscope, etc. See 531.34, Rotation.
.29 Zodiac.

.3 Moon.

.31 Constants (Size, Mass), Distance and Parallax.
.32 Heat and Light. Phases.
.33 Orbit and Motions: Sidereal Month, Tropical. Perigee and Apogee, Sun and Earth's Attraction, Librations. See also 521.6 for Orbit.
.34 Features of Surface, Mountains, Plains, etc.
.35 Atmosphere.
.36 Physical Condition.
.37 Spectrum.
.38 Eclipses
.39 Charts, Photographs, etc.

.4 Planets.

.41 Mercury and intra-Mercurial.
.42 Venus.
.43 Mars.
.44 Asteroids.
.45 Jupiter.
.46 Saturn.
.47 Uranus.
.48 Neptune and trans-Neptunian.
.49 Charts, Photographs, etc.

.5 Meteors and Zodiacal Light.

.51 Aerolites.
.52 Fire-balls.
.53 Meteoric Showers, Radiant Points, etc.
.54 Systems of Meteors.
.55
.56 Connection of Comets and Meteors
.57 Spectrum.
.58 Hight of Atmosphere from Observation.
.59 Zodiacal Light. Aurora Borealis.

523.6 Comets.

.61 Appearance and Development.
.62
.63 Orbits.
.64 Remarkable Comets.
.65
.66 Physical Constitution.
.67 Spectrum.
.68
.69 Charts, Photographs, etc.

.7 Sun.

.71 Constants, Dimensions.
.72 Heat and Light: Theories as to Source.
.73 Apparent Motion. Rotation. See 525.38, Tables.
.74 Spots, Faculæ, and Other Features of Surface.
.75 Prominences, Chromosphere, Corona.
.76 Theories of Physical Constitution.
.77 Spectrum.
.78 Eclipses.
.79 Charts, Photographs, etc.

.8 Stars.

.81 Stellar Parallax, Distance.
.82 Heat and Light. Photometric Observations. Magnitude. Visibility.
.83 Proper Motion, Star-drift.
.84 Variable, Double, and Multiple Stars.
.85 Clusters and Nebulæ.
.86 Physical Constitution.
.87 Spectrum.
.88
.89 Constellations, Maps, etc.

.9 Transits and Occultations.

.91 Transits of Mercury.
.92 Transits of Venus and Solar Parallax.
.93 Delisle's Method.
.94 Halley's Method.
.95 Photographic Method.
.96 Transits of Venus to 1874.
.97 Transit of 1882.
.98
.99 Occultations.

[524 Maps, Observations, and Tables.

Series of observatory publications may be kept together under 524, or under 522.19 with the History and Reports of the Observatory. Special maps or observations e.g. on Sun or Moon are better placed in sub-sections 9 *under these heads*, with Charts and Photographs, e.g. 523.79, thus leaving these bracketed Nos. 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep *all* Maps and Observations together.

.3 Of Moon. See also 523.39.
.4 Of Planets. See also 523.49.
.5
.6 Of Comets. See also 523.69.
.7 Of Sun. See also 523.79.
.8 Star Catalogues. See also 523.89.]

525 Earth.

.1 Constants.

.11 Mass. Weight.
.12 Density.
.13 Dimensions, Diameter.
.14 Figure. Geomorphy. Equatorial Belt.
.15 Distance from Sun.
.16 Parallax.

.2 Heat. Light.

.3 Orbits and Motions.

.31 Period of Revolution.
.32 Obliquity of Ecliptic to Equator.
.33 Eccentricity.
.34 Perturbations.
.35 Rotation.
.36 Foucault's Pendulum.
.37 Deviation of Falling Bodies and Projectiles.
.38 Tables of the Sun. Apparent Motion. See 523.73, Sun.

.4 Geographical Co-ordinates.

.41 Finding Latitude. See also 527.1.
.42 By Meridian Altitudes.
.43 By Pole Star.
.44 By Altitude of two or more Stars.
.45 By Other Methods.
.46 Finding Longitude. See also 527.2.
.47 Terrestrial Means. Chronometers. Telegraph. Signals.
.48 Celestial Signals. Eclipses. Occultations. Transits.
.49 Lunar Methods.

.5 Seasons.

.51 Effect of Inclination of Equator to Ecliptic.
.52 Effect of Eccentricity of Earth's Orbit.
.53 Secular Changes of Seasons.
.54 Seasons on Mars and Other Planets.

.6 Tides.

.61 Mathematical Theory.
.62 Effect of Sun and Moon in Producing Tides.
.63 Distribution, Diurnal Inequality, Spring and Neap, Priming and Lagging.
.64 Establishment of a Port. Coast Form Modification.
.65 Velocity of Hight of Tide Wave.
.66 Tides on Inland Seas.
.67 Supposed Effect in Retarding Earth's Revolution.
.68 Tide Registering and Predicting Machines.
.69 Tide Tables.

.7 Twilight.

526 Geodesy.

.1 Theory and Determination of Earth's Figure.

.11 Potentials of Ellipsoids.
.12 Equilibrium of Rotating Spheroid.
.13 Law of Ellipticity.
.14 Airy's and Pratt's Theories as to Attraction of Mountains.
.15 Determination of Figure by Airy, by Bessel, and by Clarke.
.16 Ellipsoidal Figure and Position of Axes.
.17 Geoidal Figure.
.18
19.

.2 Base Measuring and Apparatus.

.21 Standards of Length and Temperature.
.22 Apparatus of Struve, Bessel, Colby, U. S. Coast Survey, U. S. Lake Survey, etc.
.23 Adjustments of Apparatus.
.24 Location of Base Line.
.25 Field Operations.
.26 Calculation of Results and Corrections.
.27 Verification.
.28
.29

.3 Field Work of Triangulation.

.31 Reconnaissance.
.32 Stations: Names, Signals, Tripods, Scaffolds and Towers, Surface and Underground Monuments.
.33 Observations, Instruments and Records.
.34 Reduction to Station's Center.
.35 Corrections for Phase of Signal and Eccentricity.
.36 Spirit Levelling.
.37 Barometric Levelling.
.38 Trigonometric Levelling.
} These are methods. See 551.53, for results, lists of hights, etc.
.39

.4 Computation of Triangulation.

.41 Spherical Excess.
.42 Legendre's Theorem.
.43 Chord Process.
.44 By Spherical Trigonometry.
.45 By Spheroidal Trigonometry. See also application of Least Squares, 522.6.

.46 L. M. Z. Formulæ and Applications.

.47 Direct Deduction by Bessel.
.48 Deduction by Puissant.
.49 Tables for Computation.

526.5 **Theory of Least Squares in Adjustment of Figures, etc.**

.51 Method of Independent Angles.
.52 Adjustment of a Quadrilateral.
.53 Adjustment of Triangulation Net.
.54 Method of Directions.
.55 Adjustment for Closure of a Circuit.
.56 Method of Repetitions.
.57 Adjustments of Base Measures.
.58 Adjustments of Levelling.

.6 **Astronomic Determinations and their Connection with Geodetic Results.**

.61 Latitude Determinations.
.62 Longitude Determinations.
.63 Azimuth Determinations.
.64 Effect of Irregularities of Earth's Surface on Latitude, Longitude and Azimuth.
.65 Effect of same on Angles of Triangle.

.7 **Gravity Experiments and Results.**

.71 Mathematical Theory.
.72 Pendulum Apparatus.
.73 Pendulum Operations.
.74 Corrections.
.75 Reduction of Results.

.8 **Map Projections.** See 515.5, Spherical projections.

.81 Perspective Projections.
.82 Orthomorphic Projections.
.83 Development Projections.
.84 Zenithal Projections.
.85 Equivalent Projections.

.9 **Surveying.**

.91 Instruments and Methods. See 526.2.
.92 Measurement of Distances.
.93 Measurement of Angles.
.94 Measurement of Heights.
.95 Levelling. See 526.36–38.
.96 Plotting.
.97 Computation of Areas.
.98 Topographical Drawing.
.99 For Special Purposes. Military, Naval, Railroad, Mining, etc.

527 Navigation.

.1 **Finding Latitude at Sea.** See also 525.41.
.2 **Finding Longitude at Sea.** See also 525.46
.3 **Finding Time at Sea.** See also 529.74.
.4 **Sumner's Method.**
.5 **Great Circle Sailing.**
.6
.7
.8
.9

528 Ephemerides.

.1 **American.**
.2 **English.**
.3 **German.**
.4 **French.**
.5 **Italian.**
.6 **Spanish.**
.7 **Slavic.**
.8 **Scandinavian.**
.9 **Construction of Ephemeris.**

529 Chronology.

.1 **Sidereal and Solar Day:** Apparent and Mean Time, Equation of Time, Causes of Inequality.
.2 **Solar Year, Months.**
.3 **Calendars.** Including early and Oriental.
.4 **Calendar of Julius Cæsar.**
.5 **Calendar of Gregory.**
.6 **Ecclesiastical Calendar. Determination.**
For feasts, etc., and calendars themselves, see 264.021, 264.031, etc.
.7 **Horology.**

.71 Finding Time by Transit.
.72 Finding by Equal Altitudes.
.73 Finding by Single Altitude.
.74 Finding by Sextant. See also 527.3.
.75 Time Systems, and Standards.
.76 Distribution of Time.
.77 Cosmic Time.
.78 Instruments for Measuring: Dials, Hour-glasses, Clocks, Watches, etc
See 522.51 for Sidereal Clocks and Chronometers.
See 681 for Clock and Watch making.
.79

530 Physics.

Like Science in General, viz.:

General works only are arranged: 530.1, Philosophy; .2, Compends; .3, Dictionaries; .4 Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching, Experiments; .8, Physical Units, Measuring Instruments; .9, History.

531 Mechanics.

.1 **Pure Motion. Kinematics.**

.2 **Statics. Graphical statics.**

.21 Force and its Measure.
.22 Composition of Forces and Motions.
.23 Moments.
.24 Parallel Forces. Centre of Gravity.

.3 **Dynamics. Kinetics.**

.31 Rectilinear Motion.
.32 Vibration.
.33 Undulation.
.34 Rotation.
.35 Centrifugal and Centripetal Force.

.4 **Work. Friction.** See 621.89, Lubrication.

.41 Unit of Work.
.42 Diagram of Work.
.43 Laws of Friction. Modulus of Machines.
.44 Sliding Friction.
.45 Rolling Friction.

.5 **Gravity.**

.51 Law of Universal Gravitation.
.52 Laws of Falling Bodies.
.53 Pendulum.
.54 Mass, Density, etc.
.55 Projectiles.
.56
.57
.58 Apparatus for Illustration.

.6 **Conservation of Energy.**

.7

.8 **Machines. Transmission of Force.**

.81 Lever and Balance.
.82 Wheel and Axle.
.83 Cord and Catenary.
.84 Pulley.
.85 Inclined Plane.
.86 Wedge.
.87 Screw.
.88

.9 **Tables. Problems. Questions.**

532 Liquids. Hydrostatics. Hydraulics.

.1 **Properties of Liquids. Pressure.**

.2 **Equilibrium of Liquids.**

.3 **Buoyant Effects. Floating Bodies.**

.4 **Specific Gravity. Hydrometer.**

.5 **Liquids in Motion.**

.51 Theoretical Flow.
.52 Orifices, Adjutages, Fluid Vein.
.53 Weirs, Overfalls.
.54 Pipes, Open Channels, Rivers.
.55 Bends, Valves, sudden enlargements and contractions.
.56 Efflux; variable pressure.
.57 Hydrometry. Velocity.
.58 Impulse and Resistance.
.59 Theory of Waves.

.6 **Capillary Attraction.**

.7 **Osmose. Absorption.**

.8 **Applications. Machines.** See 621.2, Water engines.

Except for libraries making Physics much more prominent than Useful Arts, all the "Applications" will be more useful under their proper heads in Useful Arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division.

.81 Hydraulic Press.
.82 Hydraulic Engine.
.83 Water Ram.
.84 Water Wheels.
.85 Water Blast.

.9 **Tables. Problems. Questions.**

533 Gases. Pneumatics.

.1 **Properties of Gases and Vapors.**

.2 **Laws of Compressibility.**

.3 **Atmosphere.**

.4 **Barometer.**

.5 **Air Pump.**

.6 **Aeronautics.**

.7 **Kinetic Theory of Gases.**

.8 **Applications.** See 621.6, Blowing and Pumping engines.

Preferably go in Useful Arts, see 532.8, Note.

.82 Manometer. Pressure Gauges See 621.18, Steam generation.
.83 Condensing Pump.
.84 Force Pump.
.85 Suction Pump.
.86 Diving Bell.
.87 Forge Bellows.
.88 Pneumatic Dispatch.

.9 **Tables. Problems. Questions.**

534 Sound. Acoustics.

.1 **Theory. Undulations.**

.2 **Propagation of Sound. Velocity. Diffraction.**

.3 **Musical Sound. Tuning Forks.** See also 781.1, Theory of Music.

.4 **Analysis of Sounds. Resonators.**

.5 **Superposition of Vibrations.**

.6 **Graphical Representations.**

.7 **Physiological. Ear and Larynx.** See also 611.85, Anatomy; 612.85, Physiology; 612.78, Voice; 617.8, Surgery; 362.1 and .4, Hospitals; 152.2, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81

.82

.83 Signals in Navigation. See also 654.9, Communication.

.84 Applications to Architecture.

.85 Musical Instruments. See also 780, Music.

.86 Phonograph.

.9 **Tables. Problems. Questions.**

535 Light. Optics.

.1 **Theory.**

.2 **Propagation. Velocity. Measurement of Light.**

.3 **Reflection. Refraction. Absorption.** See also 522.92, Astronomy.

.4 **Dispersion. Diffraction. Interference.**

.5 **Polarization. Polariscope. Double Refraction.**

.6 **Color.**

.7 **Physiological. Eye.** See also 611.84, Anatomy; 612.84, Physiology; 617.7, Surgery; 362.1 and .4, Hospitals; 152.1, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81 Lenses.

.82 Microscopes and Magnifiers. See also 578, Microscopy.

.83 Telescopes. See also 522.2, Astronomy.

.84 Spectroscopes and Spectrum Analysis. See also 544.6, Chemistry; 522.67, Astronomy; 523.37, Moon; 523.57, Meteors, etc.

.85 Photography. See also 770.

.86 Other Applications of Lenses.

.87 Mirrors and Reflecting Instruments.

.88 Lighthouses. See also 627.9, Harbor Engineering; 656, Commerce.

.89

.9 **Tables. Problems. Questions.**

536 Heat.

.1 **Theory. Nature.**

.2 **Communication.**

.3 **Action of Bodies on Heat.**

.31 Reflection.

.32 Refraction.

.33 Radiation.

.34 Absorption.

.35 Diathermancy.

.4 **Effects. Action of Heat on Bodies.**

.41 Expansion.

.42 Liquefaction.

.43 Solidification.

.44 Vaporization and Condensation.

.45 Incandescence.

.46 Combustion. Flame.

.5 **Temperature.** See also 551.52, Meteorology; 613.18, Hygiene.

.51 Thermometry.

.52 Pyrometry.

.53 Electric Methods of Measuring.

.6 **Calorimetry.**

.7 **Thermodynamics. Mechanical Equivalent.**

.8 **Applications.** Preferably go in Useful Arts. See 532.8, Note.

.81 Steam Engines. See 621.1, Engineering.

.82 Gas Engines. See 621.43, Engineering.

.83 Heating. See 697, 621.19, 628.8, 644.

.84 Ventilating. See 697, 622.4, 628.8.

.9 **Tables. Problems. Questions.**

537 Electricity.

.1 **Theory. Nature.**

.2 **Statical.**

.21 Quantity, Potential.

.22 Conduction, Distribution

.23 Machines.

.24 Condensers.

.25 Electrometers.

.3

.4 **Atmospheric. Lightning Rods.**

.5 **Dynamical.**

.51 Theory of Coils. Constants.

.52 Induction Spark.

.53 Induction Spark in rarified gases.

537.6 **Electro Dynamics.**

.7 **Electrical Measurements.** and Testing

.8 **Applications.** See 621.3. Preferably go in Useful Arts. See 532.8, Note.

.81 Telegraph. See 654.

.82 Telephone. Microphone.

.83 Dynamos. Electric Lighting.

.84 Transmission of Power. Storage.

.85 Electro-Metallurgy. and Reproduction

.86 Galvanometers. Batteries. Coils.

.87 Medicine.

.88 Electric Signals.

.9 **Tables. Problems. Questions.**

538 Magnetism.

For "Animal Magnetism," Mesmerism, etc., see 134.

.1 **Theory. Properties of Magnets. Lines of Force.**

.2 **Communication. Induction. Touch.**

.3 **Electro-Magnetism.**

.4 **Diamagnetism.**

.5

.6

.7 **Terrestrial Magnetism.**

.8 **Applied. Magnetic Machines.**

.9 **Tables. Problems. Questions.**

539 Molecular Physics.

.1 **Theory. Molecular Structure.** Vortex Rings.

.2 **Properties of Solids.**

.3 **Elasticity. Torsion.**

.4 **Strength of Materials.**

.5 **Permanent Displacement of Molecules.**

.51 Malleability.

.52 Ductility.

.53 Hardness.

.54 Tempering.

.6 **Intermolecular Forces.**

.7

.8

.9 **Tables. Problems. Questions.**

540 Chemistry.

.1, Theories, Alchemy, Phlogiston; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching; .8, Collective Works; .9, History.

541 Theoretical Chemistry.

.1 **Thermo Chemistry.**

.2 **Atoms. Molecules. Atomic Weights. Equivalence.**

.3 **Chemical Affinity. Combustion.**

.4 **Salts. Acids. Bases.**

.5 **Types.**

.6 **Compound Radicles.**

.7 **Allotropy. Isomerism.**

.8 **Solubility. Water of Crystallization.**

.9 **Classification. Nomenclature. Notation. Formulæ. Stoichiometry. Tables.**

542 Practical and Experimental Chemistry.

.1 **Laboratory.**

.2 **Apparatus and Manipulation.**

.3 **Weighing and Measuring. Specific Gravity.**

.4 **Heating. Baths. Distillation.**

.5 **Blowpiping.** See 544.3, 549.1.

.6 **Solution. Precipitation.**

.7 **Gas Manipulation. Eudiometer.** See 545.7.

.8 **Electric and Galvanic Manipulation.** See 537.85.

.9 **Other Operations.**

543 Analysis.

Divided by material analyzed. See also 614.3, Adulterations.

.1 **Food and Drink.** See also 613.2, Hygiene; 612.39, Nutrition.

.2 **Milk.**

.3 **Water.** See also 613.3, Beverages.

.4 **Drugs and Medicines.**

.5 **Poisons.**

.6 **Rock Analysis.**

.7 **Special Inorganic Substances.** See also 614.771, Analysis of soils.

.8 **Special Vegetable Substances.**

.9 **Special Animal Substances.**

544 Qualitative Analysis.

.1 **Wet Method.**
.2 **Dry Method.** See 669.9, Assaying.
.3 **Blowpiping.** See 542.5, 549.1, Mineralogy.
.4
.5 **Dialysis.**
.6 **Spectrum Analysis.** See 535.84.
.7 **Polarization.** See 535.5.
.8
.9

545 Quantitative Analysis.

.1 **Gravimetric.**
.2 **Wet Method.**
.3 **Electrolysis.** See 537.85.
.4 **Dry Method.**
For Assaying see 669.9.
.5 **Volumetric.**
.6 **Solutions.**
.7 **Gases. Eudiometry.** See 542.7.
.8 **Colorimetric.**
.9 Synthesis.

546 Inorganic Chemistry.

.1 **Non-Metallic Elements.**

.11 Hydrogen.
.12 **Halogen Group.**
.13 Chlorine.
.14 Bromine.
.15 Iodine.
.16 Fluorine.
.17 **Nitrogen Group.** Nitrogen.
.18 Phosphorus.
.19 Arsenic.
.2 **Oxygen Group.**
.21 Oxygen.
.22 Sulphur.
.23 Selenium.
.24 Tellurium.
.25 **Carbon Group.**
.26 Carbon.
.27 Boron.
.28 Silicon.
.29

546.3 **Metals.**

.31 **Alkali Group.**
.32 Potassium.
.33 Sodium.
.34 Lithium.
.35 Rubidium.
.36 Caesium.
.37
.38
.39
.4 **Alkaline Earths.**
.41 Calcium.
.42 Strontium.
.43 Barium.
.44 **Magnesium Group.**
.45 Beryllium.
.46 Magnesium.
.47 Zinc.
.48 Cadmium.
.49
.5 **Lead Group.**
.51 Lead.
.52 Thallium.
.55 **Silver Group**
.56 Copper.
.57 Silver.
.58 Mercury.
.59
.6 **Cerium Group.**
.61 Yttrium.
.62 Cerium.
.63 Lanthanum.
.64 Didymium.
.65 Erbium.
.66 Aluminium.
.67 Indium.
.68 Gallium.
.69 Scandium.
.7 **Iron Group.**
.71 Manganese.
.72 Iron.
.73 Cobalt.
.74 Nickel.
.75 **Chromium Group.**
.76 Chromium.
.77 Molybdenum.
.78 Tungsten.
.79 Uranium.

546.8 **Tin Group.**
.81 Tin.
.82 Titanium.
.83 Zirconium.
.84 Thorium.
.85 **Vanadium Group.** Vanadium.
.86 Antimony.
.87 Bismuth.
.88 Tantalum.
.89 Niobium.
.9 **Platinum Group.**
.91 Gold.
.92 Platinum.
.93 Iridium.
.94 Osmium.
.95 **Ruthenium Group.**
.96 Ruthenium.
.97 Rhodium.
.98 Palladium.
.99

547 Organic Chemistry.

.1 **Cyanogen and its Compounds.**
.2 **Hydrocarbons. Fatty Series.**
.21 Paraffins.
.22 Olefines.
.23 Acetylenes.
.24 Valylene. Dipropargyl, etc.
.25 **Aromatic Series.**
.26 Benzenes.
.27 Diphenyl Group.
.28 Naphthalene. Anthracene. Phenanthrene.
.29 Higher Series.
The seven heads 547.3 to 547.9 are sub-divided like 547.2.
.3 **Alcohols. Phenols.**
.4 **Ethers. Simple. Compound. Haloid.**
.5 **Aldehydes.**
.6 **Ketones. Quinones.**
.7 **Acids. Acid Halides. Acid Anhydrides. Sulpho-acids.**
.8 **Nitro-derivatives. Amines. Compound Ammoniums. Amids. Amic Acids. Azo-bodies. Azoxy-bodies. Hydrazo-bodies. Diazo-bodies.**
.9 **Compounds with Metals.**

548 Crystallography.

.1 **Systems of Crystallization.**
.2 **Twin Crystals. Crystalline Aggregations.**
.3 **Cleavage. Isomorphism. Polymorphism.**
.4 **Irregularities. Internal Imperfections.**
.5 **Formation and Growth of Crystals.**
.6 **Pseudomorphs.**
.7 **Mathematical. Measurement of Angles.**
.8 **Physical.**
.9 **Optical.**

549 Mineralogy.

.01, Philosophy, Classification; .02, Compends; .03, Dictionaries; .04, Essays, Papers, etc.; .05, Periodicals; .06, Societies; .07, Study and Teaching, Museums; .08, Collective Works; .09, History.

.1 **Determinative. Blowpiping.** See also 542.5; 544.3.
.2 **Native Elements.**
.3 **Sulphides, Tellurides, Selenides, Arsenides, Antimonides, Bismuthides.**
.4 **Compounds of Chlorine, Bromine, Iodine, and Fluorine.**
.5 **Oxygen Compounds. Oxids.**
.6 **Silicates.**
.61 Anhydrous.
.65 Hydrous.
.7 **Other Ternary Oxygen Compounds.**
.71 Tantalates. Columbates.
.72 Phosphates. Arsenates. Vanadates. Antimonates. Nitrates.
.73 Borates.
.74 Tungstates. Molybdates. Chromates.
.75 Anhydrous Sulphates.
.76 Hydrous Sulphates.
.77 Tellurates.
.78 Carbonates.
.79 Oxalates.
.8 **Hydrocarbons.**
.9 **Geographical Distribution.**

550 Geology.

550.1, Philosophy, Theories, Geological Time; .2, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

551 Physical and Dynamical Geology.

Including Physical Geography. For Cosmical Geography, see 523.

.1 Structure of Earth as a Whole.

.11 Interior of Earth.
.12 Internal Heat.
.13 Earth's Crust.
.14 Conductivity of Rocks.

.2 Seismology.

.21 Volcanoes.
.22 Earthquakes.
.23 Hot Springs, Geysers.
.24 Oscillations of the Earth's Crust.

.3 Erosion and Deposition.

.31 Glaciers and Glacial Phenomena.
.32 Moraines.
.33 Transported Materials, Till.
.34 Icebergs.
.35 Aqueous Erosion.
.36 Coast Changes.
.37 Aerial Erosion.

.4 Surface Features of the Earth.

.41 Continents.
.42 Islands.
.43 Mountains. Valleys. Orology.
.44 Caves.
.45 Plains.
.46 Oceans.
.47 Ocean Currents.
.48 Rivers. Lakes.
.49 Springs. Wells. Ground water.

Division of Oceans for use under .46 and .47.
1, Atlantic. North Sea. Baltic.
2, Mediterranean. Black Sea.
3, Gulf of Mexico. Caribbean.
4, Southern Atlantic.
5, Pacific.
6, Eastern Pacific or American Coast.
7, Indian. Bay of Bengal. Red Sea.
8, Arctic.
9, Antarctic.

.5 Meteorology.

.51 Atmospheric Currents. Winds.
.52 Thermometry, Heat. See also 536.5, Temperature; 613.18, Hygiene.
.53 Hypsometry. See 526.36–8 for Methods.
.54 Barometry, Pressure.
.55 Storms.
.56 Climate.
.57 Moisture. Rainfall. Flow of Streams. Floods.
.58 Prairies, Forests, and Deserts.
.59 ATLASES, MAPS, STATISTICS, REPORTS.

.6 Metamorphism.

.7 Stratigraphical Geology.

.71 Archæan.
.72 Cambrian.
.73 Silurian. .731, Lower Silurian; .732, Upper Silurian.
.74 Devonian. Old red sandstone.
.75 Carboniferous.
.76 Triassic and Jurassic. Lias. Oolite.
.77 Cretaceous.
.78 Tertiary. .781, Eocene. .782, Miocene. .783, Pliocene.
.79 Quaternary. Postpliocene. Glacial. .791, Recent.

551.8 Structural Geology.

.81 Stratification.
.82 Curvature and Contortion.
.83 Ripple Marks and Sun Cracks.
.84 Joints. Cleavage. Polarity in Rocks.
.85 Dip. Outcrop. Strike.
.86 Anticlinal. Synclinal.
.87 Faults and Folds. Dislocations.
.88 Veins. Dykes. Necks. Bosses.
.89

.9 Agents of Geological Work.

.91 Frost.
.92 Water.
.93 Atmosphere.
.94 Chemical Changes. Heat.
.95 Animals.
.96 Coral Reefs.
.97 Plants.
.98 Segregation and Concretion.
.99 Other Agents.

552 Lithology, Petrography, Petrology.

.1 Igneous Rocks.

.2 Volcanic Rocks.

.21 Lavas. Scoria.
.22 Volcanic Ashes. Volcanic Tufa. Tuff.
.23 Obsidian. Pumice. Pitchstone.
.24 Trachyte.
.25 Rhyolite.
.26 Andesite. Dacite. Phonolite.
.27 Felsites.
.28 Basalt.
.29 Other Volcanic Rocks.

.3 Plutonic Rocks.

.31 Porphyry. Porphyrite.
.32 Syenite.
.33 Granite.
.34 Diabase and Gabbro.
.35 Dolerite.
.36 Diorite.
.37 Norite.
.38 Peridotite.
.39 Other Plutonic Rocks.

.4 Metamorphic Rocks.

.41 Granites and Syenites.
.42 Gneiss.
.43 Schists.
.44 Slates. Argillite. Phyllite.
.45 Quartzite. Novaculite. Itacolumite.
.46 Marble. Crystalline limestone.
.47 Serpentine.
.48 Chrysolitic Rocks.
.49 Other Metamorphic Rocks.

552.5 **Sedimentary Rocks.**

.51 Sandstone. Conglomerate. Sand. Gravel.
.52 Shale. Clay. Silt.
.53 Gypsum. Salt.
.54 Limestone. Marl. Ooze.
.55 Dolomite.
.56 Oölite.
.57 Infusorial or Diatomaceous Earth.
.58 Glauconite. Greensand.
.59 Other Sedimentary Rocks.

.6 **Meteorites.**

.7 **Decay of Rocks.**

.8 **Microscopical Petrography.**

.81 Determination of Rock Minerals.
.82 Rock Structure.

553 Economic Geology. See also 622.1, Exploration and prospecting.

.1 **Ore Deposits.**

.11 Formation and Structure.
.12 Classification.
.13 Superficial. Placers.
.14 Stratified. Beds, etc.
.15 Unstratified.
.16 Disseminated through eruptive rocks.
.17 Stockwerks. Fahlbands. Contacts.
.18 Chambers and Pockets. Impregnations.
.19 Mineral Veins.

.2 **Carbon Series.**

.21 Peat.
.22 Lignite and Jet.
.23 Cannel Coal. Bituminous Shale.
.24 Bituminous and Semi-Bituminous Coals.
.25 Anthracite and Graphitic Anthracite.
.26 Graphite. Plumbago.
.27 Asphalt and Asphaltic Coals. Ozocerite.
.28 Petroleum. Natural Gas.
.29 Fossil Gums and Resins.

[While the history of all the other products goes here, the history of the metals is more useful in 669, Metallurgy.]

.3 **Ores of Iron.**

.4 **Ores of Metals other than Iron.**

.41 Ores of Gold.
.42 Ores of Silver.
.43 Ores of Copper.
.44 Ores of Lead.
.45 Ores of Zinc and Tin. Mercury.
.46 Ores of Manganese and Chromium
.47 Ores of Antimony and Arsenic.
.48 Ores of Nickel and Cobalt.
.49 Other Metallic Ores.

553.5 **Building Stones.**

.51 Marbles and Limestones.
.52 Granites and Syenites.
.53 Sandstones.
.54 Slates.
.55 Serpentines. Soapstones.
.56 Porphyries.
.57 Trap.
.58 Tufa. Peperino.
.59 Other Building Stones.

.6 **Earthy Economic Minerals.**

.61 Fire Clays. Brick Clays. Potter's Clays.
.62 Sands.
.63 Rock Salt. Gypsum.
.64 Phosphates. Apatite. Guano.
.65 Emery.
.66 Heavy Spar. Sulphur.
.67 Asbestus, etc.
.68 Limes and Mineral Cements.
.69 Other Earthy Economic Minerals.

.7 **Mineral Waters.**

.71 Alkaline.
.72 Saline.
.73 Chalybeate, Iron-bearing.
.74 Sulphuric.
.75 Calcic.

Divide general works geographically like 930–999; e. g. Mineral waters of Germany, 553. 7043

See also 551.23.

.8 **Gems. Ornamental Stones.**

.9 **Other Economic Minerals.**

554 Geology of Europe. 554–559 subdivided by countries like 940–999.
555 Geology of Asia.
556 Geology of Africa.
557 Geology of North America.
558 Geology of South America.
559 Geology of Oceanica. Polar Regions.

560 Paleontology. Use form divisions as in 550 and divide .9 geographically like 930–999; e. g. Paleontology of Germany is 560.943.

561 Plants. .561 is subdivided like Botany, 580.
562 Invertebrates. 562–569 is subdivided like Zoology, 592 599.
563 Protozoa. Radiates.
564 Mollusks.
565 Articulates.
566 Vertebrates.
567 Fishes. Batrachia.
568 Reptiles. Birds.
569 Mammals.

570 Biology.

570.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

571 Prehistoric Archæology.

For Customs, see 390. For archæology of special countries, see 913.

.1 **Paleolithic, or Early Stone Age.**
- .11 Drift Remains.
- .12 Cave Men.
- .13 Remains of Animals. Shells.
- .14 Chipped Stones.
- .15 Flint Flakes. Arrow Heads. Knives, etc.
- .16 Other Stone Remains.
- .19 Other Remains.

.2 **Neolithic, or Late Stone Age.**
- .21 Stone Quarries.
- .22
- .23 Remains of Animals.
- .24 Polished Stones.
- .25 Sharpened Stones. Celts. Tools. Weapons.
- .26 Perforated Stones. Spindles. Net Sinkers. Pipes.
- .27 Hollowed Stones. Mortars. Cups. Food Vessels.
- .28 Other Stone Remains.
- .29 Other Remains.

.3 **Bronze Age.**
- .31 Ancient Copper and Tin Mining.
- .34 Bronze Remains.
- .35 Tools. Weapons, etc.
- .37 Cups. Vessels.
- .39 Other Remains.

.4 **Iron Age.**

.5 **Other Remains.**
- .51 Implements of Wood.
- .52 Implements of Bone.
- .53 Basket Work.
- .54 Textile Fabrics.
- .55 Pottery.
- .56 Glass.

.6

.7 **Rudiments of Art. Ornaments.**
- .71 Drawings.
- .72 Paint.
- .73 Sculptures.
- .74 Beads.

.8 **Dwellings.**
- .81 Natural Caves.
- .82 Earth Houses. Pit Dwellings. Weems.
- .83 Lake Dwellings. Crannoges.
- .84 Cliff Dwellings.
- .85 Pueblos.
- .86 Tents as Dwellings.

571.9 **Mounds and Monuments.**
- .91 Mounds and Mound Builders.
- .92 Grave Mounds.
- .93 Kitchen Middens. Shell Banks
- .94 Monoliths. Cromlechs.
- .95 Circles. Labyrinths.
- .96 Cairns.
- .97
- .98
- .99

572 Ethnology. Anthropology.

See also 136.4, Mental race characteristics.

.1 **Unity of the Human Race.**

.2 **Diversity of Races.**

.3 **Migrations of Men.**

.4 **Original Home of Man. Eden, Atlantis, etc.**

.5

.6

.7

.8 **Races divided by Language like 400.**

.9 **Races divided by Countries like 930-999.**

Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 Natural History of Man.

.1 **Man's Place in Nature.**

.2 **Origin of Man.**

.3 **Antiquity of Man.**

.4 **Influence of Climate and Surroundings.**

.5 **Color in Man.**

.6 **Anthropometry.**

.7 **Craniology.**

.8 **Dwarfs and Giants.**

.9 **Monstrosities.** See also 613.91, Congenital defects; 617.3, Deformities.

574 Homologies.

575 Evolution.

See also 213, Creation; 215, Religion and Science; 239.8, Apologetics.

.1 **Heredity.** See also 136.3, Mental; 233.3, Moral; 129.2, Origin of soul.

.2 **Variation.** See also 591.15, Physiological zoölogy.

.3 **Environment.** See also 136.2, Mental; 573.4.

.4 **Natural Selection.**

.5 **Sexual Selection.**

.6 **Development. Survival of the Fittest.**

.7 **Degeneration.**

.8 **Origin of Species.**

.9 **Origin of Sexes.** See also 591.36, Embryology.

576 Origin and Beginnings of Life.

.1 Spontaneous Generation.
.2 Protoplasm. Bioplasm.
.3 Cells.
.4 Beginnings of Motion and Sensation.
.5
.6

577 Properties of Living Matter.

.1 Chemical. Difference between Organic and Inorganic.
.2 Life. Difference between Dead and Living Matter.
.3 Difference between Vital and Physical Phenomena.
.4 Conditions of Life. Moisture. Temperature.
.5 Difference between Plants and Animals.
.6 Vital Force.
.7 Death.
.8 Sex in Nature.
.9

578 Microscopy. See also 535.82, Optics.

.1 Varieties of Microscopes.
.2 Optical Parts.
.3 Mechanical Parts.
.4 Accessory Apparatus and Management of Microscope.
.5 Illuminating Apparatus.
.6 Preparation and Mounting of Objects.
.7 Special Preparation and Study of Inorganic Material.
.8 " Botanical Material. See 581.8, Histology.
.9 " Zoological Material. 591.8, "

579 Collectors' Manuals.

.1 Preparing Skeletons.
.2 Preservatives and Hardening Fluids.
.3 Injections.
.4 Taxidermy.
.5 Mounting Specimens.
.6 Collecting.
.11, Alluring; Bait, Light, etc. .12, Hunting; Nets, Collecting bottle, etc. .13, Killing. .14, Exchange. Purchase. .15, Rearing. .16, Transporting.
.7 Arrangement of Specimens in Museums.
.71, Cabinets. .72, Labels.
.8 Preservation of Specimens.
.81, Museum Pests. .82, Pestifuges. .83, Prevention of moisture. .84, Retention of colors.
.9

580 Botany.

580.1, Philosophy, Classification, Nomenclature; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching, Herbariums, Botanic Gardens; .8, Collective Works; .9, History.

581 Physiological and Structural Botany.

Subdivided where wished like 591.

.1 Physiology.
.2 Pathology. Teratology.
.21 Diseases.
.22 Teratology.
.23 Parasites.
.3 Embryology. Germination.
.4 Morphology. Comparative Anatomy.
.5 Habits.
.6 Economic.
.7 Organography. Descriptive Anatomy.
.8 Histology. See 578.8.

.9 Geographical.

.91 Distribution of Plants.

.93–.99 is subdivided like 930–999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 586 with a reference from 581.97, but No. Am. Phanerogamia goes with 581.97 because it so completely covers the subject.

General Works covering both Phanerogamia and Cryptogamia are put under 580, as books of Vertebrates and Invertebrates are put under 590.

In applying these numbers to Fossil Plants, 561, note that one more figure must be used than in Fossil Animals. The Zoölogy numbers are already given in the third place in Paleontology, e. g. 592 Invertebrates, 562 Fossil Invertebrates, and so on to 599 Mammals, and 569 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogams are 561.2 not 562, which is assigned to Invertebrate Zoölogy as more important. Lichens are 561.91, etc. In the same way the Fossil Flora of North America is 561.197, i. e., the first two Botany figures, 58, are changed to 561 to give the corresponding Fossil Botany number, while in Zoölogy the only change is from 59 to 56 for first two figures, except in 591, which cannot change to 561, which is assigned to Botany. The Fossil Fauna of North America must therefore go among general works under 560.97.

582 Phanerogamia. See also Trees 715.

The sub-sections below are taken from the recognized authority, Bentham and Hooker's Genera Plantarum.

583 Dicotyledonæ.

.1 Polypetalæ.
.11 Ranales.
.111 Ranunculaceæ.
.112 Dilleniaceæ.
.113 Calycanthaceæ.
.114 Magnoliaceæ.
.115 Anonaceæ.
.116 Menispermaceæ.
.117 Berberideæ.
.118 Nymphæaceæ.

583.12 **Parietales.**
.121 Sarraceniaceæ.
.122 Papaveraceæ.
.123 Cruciferæ.
.131 Capparideæ.
.133 Resedaceæ.
.134 Cistineæ.
.135 Violarieæ.
.137 Canellaceæ.
.138 Bixineæ.
.14 **Polygalineæ.**
.141 Pittosporeæ.
.142 Tremandreæ.
.143 Polygaleæ.
.145 Vochysiaceæ.
.15 **Caryophyllineæ.**
.151 Frankeniaceæ.
.152 Caryophylleæ.
.153 Sileneæ.
.154 Alsineæ.
.155 Polycarpeæ.
.156 Portulaceæ.
.158 Tamariscineæ.
.16 **Guttiferales.**
.161 Elatineæ.
.162 Hypericineæ.
.163 Guttiferæ.
.166 Ternstrœmiaceæ.
167 Dipterocarpeæ.
.168 Chlænaceæ.
.17 **Malvales.** Malvaceæ.
.18 Sterculiaceæ.
.19 Tiliaceæ.
.21 **Geraniales.**
.211 Lineæ.
.213 Humiriaceæ.
.214 Malpighiaceæ.
.221 Zygophylleæ.
.223 Geraniaceæ.
.23 Rutaceæ.
.241 Simarubeæ.
.245 Ochnaceæ.
.247 Burseraceæ.
.251 Meliaceæ.
.255 Chailletiaceæ.

583.26 **Olacales.**
.261 Olacineæ.
.269 Ilicineæ.
.27 **Celastrales.**
.271 Celastrineæ.
.274 Stackhousieæ
.275 Rhamneæ.
.279 Ampelideæ.
.28 **Sapindales.**
.281 Sapindaceæ.
.291 Sabiaceæ.
.292 Anacardiaceæ.
.297 **Anomola.**
.298 Coriarieæ.
.299 Moringeæ.
.3 **Rosales.**
.31 Connaraceæ.
.32 Leguminosæ.
.37 Rosaceæ.
.38 Saxifrageæ.
.39 Crassulaceæ.
.393 Droseraceæ.
.394 Hamamelideæ.
.396 Bruniaceæ.
.398 Halorageæ.
.4 **Myrtales.**
.411 Rhizophoreæ.
.414 Combretaceæ.
.42 Myrtaceæ.
.43 Melastomaceæ.
.441 Lythrarieæ.
.445 Onagrarieæ.
.45 **Passiflorales.**
.451 Samydaceæ.
.453 Loaseæ.
.455 Turneraceæ.
.456 Passifloreæ.
.461 Cucurbitaceæ.
.468 Begoniaceæ.
.469 Datisceæ.
.47 **Ficoidales.**
.471 Cacteæ.
.475 Ficoideæ.
.48 **Umbellales.**
.481 Umbelliferæ.
.491 Araliaceæ.
.497 Cornaceæ.

583.5 **Gamopetalæ.**

.51 **Rubiales.** Caprifoliaceæ.
.52 Rubiaceæ.
.53 **Asterales.**
.531 Valerianeæ.
.541 Dipsaceæ.
.546 Calycereæ.
.55 Compositæ.
.57 **Campanales.** Stylidieæ.
.58 Goodenovieæ.
.59 Campanulaceæ.
.6 **Ericales.**
.61 Vacciniaceæ.
.62 Ericaceæ.
.63 Monotropeæ.
.64 Epacrideæ.
.65 Diapensiaceæ.
.66 Lennoaceæ.
.67 **Primulales.**
.671 Plumbagineæ.
.672 Primulaceæ.
.677 Myrsineæ.
.68 **Ebenales.**
.681 Sapotaceæ.
.685 Ebenaceæ.
.686 Styraceæ.
.7 **Gentianales.**
.71 Oleaceæ.
.716 Salvadoraceæ.
.72 Apocynaçeæ.
.73 Asclepiadeæ.
.74 Loganiaceæ.
.75 Gentianeæ.
.76 **Polemoniales.**
.761 Polemoniaceæ.
.764 Hydrophyllaceæ.
.77 Boragineæ.
.78 Convolvulaceæ.
.79 Solanaceæ.
.8 **Personales.**
.81 Scrophularineæ.
.821 Orobanchaceæ.
.825 Lentibularieæ.
.829 Columelliaceæ.
.83 Gesneraceæ.
.84 Bignoniaceæ.
.85 Pedalineæ.
.86 Acanthaceæ.
.87 **Lamiales.**
.871 Myoporineæ.
.876 Selagineæ.
.88 Verbenaceæ.
.891 Labiatæ.
.899 **Ordo anomalus.** Plantagineæ.

583.9 **Apetalæ.**

.91 **Curvembryeæ.**
.911 Nyctagineæ.
.912 Illecebraceæ.
.913 Amarantaceæ.
.914 Chenopodiaceæ
.915 Phytolaccaceæ.
.916 Batideæ.
.917 Polygonaceæ.
.92 **Multiovulatæ Aquaticæ.**
.921 Podostemaceæ.
.922 **Multiovulatæ Terrestres.** Nepenthaceæ
.923 Cytinaceæ.
.924 Aristolochiaceæ.
.925 **Micrembryeæ.** Piperaceæ.
.926 Chloranthaceæ.
.927 Myristiceæ.
.928 Monimiaceæ.
.93 **Daphnales.**
.931 Laurineæ.
.932 Proteaceæ.
.933 Thymelæaceæ.
.934 Penæaceæ.
.935 Elæagnaceæ.
.94 **Achlamydosporeæ.**
.941 Loranthaceæ.
.943 Santalaceæ.
.947 Balanophoreæ.
.95 **Unisexuales.**
.951 Euphorbiaceæ.
.961 Balanopseæ.
.962 Urticaceæ.
.971 Platanaceæ.
.972 Leitnerieæ.
.973 Juglandeæ.
.974 Myricaceæ.
.975 Casuarineæ.
.976 Cupuliferæ.
.98 **Anomali.**
.981 Salicineæ.
.983 Lacistemaceæ.
.984 Empetraceæ.
.987 Ceratophylleæ.

584 Monocotyledonæ.

.1 **Microspermeæ.**
.11 Hydrocharideæ.
.13 Burmanniaceæ.
.15 Orchideæ.
.2 **Epigyneæ.**
.21 Scitamineæ.
.22 Bromeliaceæ.
.23 Hæmodoraceæ.
.24 Irideæ.
.25 Amaryllideæ.
.26 Taccaceæ.
.27 Dioscoreaceæ.
.3 **Coronarieæ.**
.31 Roxburghiaceæ.
.32 Liliaceæ.
.34 Pontederiaceæ.
.35 Philydraceæ.
.36 Xyrideæ.
.37 Mayaceæ.
.38 Commelinaceæ.
.39 Rapateaceæ.
.4 **Calycineæ.**
.41 Flagellarieæ.
.45 Juncaceæ.
.5 Palmæ.
.6 **Nudifloreæ.**
.61 Pandaneæ.
.62 Cyclanthaceæ
.63 Typhaceæ.
.64 Aroideæ.
.68 Lemnaceæ.
.7 **Apocarpeæ.**
.71 Triurideæ.
.72 Alismaceæ.
.74 Naiadaceæ.
.8 **Glumaceæ.**
.81 Eriocauleæ.
.82 Centrolepideæ.
.83 Restiaceæ.
.84 Cyperaceæ.
.9 Gramineæ.

585 Gymnospermæ.

.1 **Gnetaceæ.**
.2 **Coniferæ.**
.9 **Cycadaceæ.**

586 Cryptogamia.

587 Pteridophyta.

.1 **Isoeteæ.**
.2 **Equisetæ.**
.3 **Filicinæ.**
.9 **Lycopodinæ.**

588 Bryophyta.

.1 **Sphagna.**
.2 **Musci.**
.3 **Hepaticæ.**
.4 **Characeæ.**

589 Thallophyta.

.1 **Lichenes.**
.11 **Basidiolichenes.**
.15 **Ascolichenes.**
.16 Angiocarpæ.
.17 Gymnocarpæ.
.18 Gelatinosæ.
.19 Byssaceæ.
.2 **Fungi.**
.21 **Carposporeæ.**
.22 Basidiomycetes.
.221 Gasteromycetes.
.222 Hymenomycetes.
.224 Tremellinæ.
.225 Uredineæ.
.227 Ustilagineæ.
.229 Entomophthoreæ.
.23 Ascomycetes.
.231 Tuberaceæ.
.233 Discomycetes.
.235 Pyrenomycetes.
.238 Gymnoasceæ.
.24 **Oosporeæ.**
.25 Peronosporeæ.
.26 Saprolegnieæ.
.27 **Zygosporeæ.**
.28 Zygomycetes.
.29 Myxomycetes.
.3 **Algæ.**
.4 **Carposporeæ.**
.41 Florideæ.
.47 Colcochaetcæ.
.5 **Oosporeæ.**
.6 **Zygosporeæ.**
.61 Conjugateæ.
.67 Zoosporeæ.
.7 **Protophyta.**
.8 **Chlorophyllaceæ.**
.9 **Achlorophyllaceæ.**
.91 Saccharomycetes. Yeast.
.95 Schizomycetes. Bacteria. Microbes.

See also 614.41, Origin of infectious diseases; 616.01, Germ theory of disease.

590 Zoology.

590.1, Philosophy, Classification; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Zoological Gardens, Aquaria, Museums; .8, Collective Works; .9, History.

591 Physiological Zoology.

.1 Physiology.

.11 Circulation.

.12 Respiration.

1, Nature; 2, Dermal; 3, Aquivascular; 5, Branchial: 6, Tracheal; 7, Pulmonary; 9, Exhalation of Aqueous Vapor.

.13 Nutrition.

1, Acquisition of Food; 2, Digestion of Food; 3, Assimilation of Food; 4, Growth; 5, Development; 6, Repair of Waste; 7, Production of Organic Material; 8, Conditions of Nutritive Activity; 9, Longevity, Vitality.

.14 Secretion and Excretion.

1, Mucous aud Sebaceous; 2, Sericeous; 3, Digestive, salivary, gastric, pancreatic; 4, Odoriferous, sweet, etc.; 5, Poisonous, gall-formation, caprification; 591.65 6, Mammary, spermatic: 7, Lachrymal; 8, Biliary; 9, Urinary and Fecal.

.15 Variation. See also 575.2, Evolution.

1, Polymorphic; 2, Geographic; 3, Heterophagic; 4, Polygoneutic; 5, Mimetic; 6, Sexual; 7, Colorational; 8, Hybrids; 9, Monstrosities.

.16 Generation.

1, Abiogenesis; 2, Parthenogenesis, neuters; 3, Metagenesis, pædogenesis, nurses; 5, Fission and Gemmation; 6 Fecundation; 7, Hermaphrodites; 8, Vivipara; 9, Superfœtation.

.17 Histogenesis.

1, Development of Sperm-cells; 2, Development of Germ-cells, micropyle; 9, Reparation of Wounds.

.18 Nervous Functions and Sensation.

.19 Physiological chemistry.

.2 Pathology.

.3 Embryology.

.33, Development of Embryo; .34, Metamorphosis, larva, pupa, moulting; .35, Hypermetamorphosis; .36, Production of Sexes. See also 575.9, Origin of sexes.

.4 Morphology. Comparative Anatomy.

.41 Circulatory Organs.

.42 Respiratory Organs.

.43 Nutritory Organs.

.44 Secretory and Excretory Organs.

.45

.46 Generatory Organs.

.47 Motory Organs.

.48 Nervous System.

.49 Integument. Dermoskeleton. Skeleton.

.5 Habits and Behavior.

.51 Instinct. Reason.

.52 Abode. Migration.

.53 Food.

.54 Seasons. Hibernation

.55 Sociability.

.56 Philoprogenitiveness. Breeding

.57 Means of Protection. Fascination.

.58

.59 Other Habits.

591.6 Economic.

.61 Usefulness.

.62 In Nature.

.63 As Food and Medicine for Man.

.64 In Chemistry and Manufactures.

.65 Noxiousness.

.66 Offensive Animals.

.67 Animals causing Diseases.

.68 Injuring Vegetable and Animal Products and Inorganic Substances.

.69 Injuring Living Plants and Animals. Parasites.

.7 Organography. Descriptive Anatomy.

Subdivided like 591.4, Morphology.

.8 Histology. See also 578.9, Microscopical zoölogy.

.9 Geographical Distribution of Animals.

Subdivided like 930–999, using .92 for ocean.

592 Invertebrates.

593 Protozoans. Radiates.

.1 Protozoans.

.11 Rhizopoda.

.12 Foraminifera.

.13 Heliozoa.

.14 Radiolaria. Polycystina.

.15 Infusoria.

.16 Flagellata.

.17 Ciliata.

.18

.19 Gregarinidæ.

.2 Radiates.

.3 Cœlenterata. Acalepha (old use of term, now limited to 593.73).

.4 Sponges. Porifera. Spongia.

.5 Cnidaria.

.6 Actinozoa. Polyps. Corals and Sea Anemones.

.61 Rugosa. Tetracorolla.

.62 Alcyonaria. Octocorolla.

.63 Zoantharia. Hexacorolla.

.64 Antipatharia.

.65 Actinaria.

.66 Madreporaria.

.7 Hydrozoa.

.71 Hydromedusæ.

.72 Siphonophora.

.73 Acalepha.

.74 Calycozoa.

.76 Marsupialida.

.77 Discophora. Jelly Fish.

.8 Ctenophora. Jelly Fish.

593.9 Echinodermata.

.91 Crinoidea. Sea Lilies.
.92 Asteroidea. Star Fish.
.93 Stelleridea.
.94 Ophiuridea.
.95 Echinoidea. Sea Urchins.
.96 Holothuroidea. Sea Cucumbers.
.97 Pedata.
.98 Apoda.
.99 Enteropneusta.

594 Mollusks.

.1 Lamellibranchiata. Bivalves.
.2 Scaphopoda.
.3 Gastropoda. Univalves.
.4 Pteropoda. Winged Shells.
.5 Cephalopoda. Squids and Cuttle Fish.
.6 Molluscoidea.
.7 Bryozoa. (Polyzoa.) Sea Mats.
.8 Brachiopoda. Lamp Shells.
.9 Tunicata. (Ascidia.) Sea Grapes.

595 Articulates.

.1 Worms. Vermes.
.2 Arthropoda.
.3 Crustacea.
.31 Entomostraca. Cyclops, Shrimps, etc.
.32 Phyllopoda.
.33 Ostracoda.
.34 Copepoda.
.35 Cirripedia. Barnacles, etc.
.36 Malacostraca. Sandbugs, Crabs, Lobsters, etc.
.37 Arthrostraca.
.38 Thoracostraca.
.39 Gigantostraca. Trilobites.
.4 Arachnida. Spiders. Scorpions.
.5 Onychophora.
.6 Myriopoda. Centipedes, etc.
.7 Insects. Insecta. Hexapoda.
.71 Thysanura.
.72 Orthoptera. Grasshoppers, etc. See also 632, Pests.
.73 Pseudoneuroptera.
.74 Neuroptera. Dragon Flies, etc.
.75 Rhynchota. Bugs, etc.
.76 Coleoptera. Beetles, etc.
.77 Diptera. Flies, etc.
.78 Lepidoptera. Butterflies, Moths.
.79 Hymenoptera. Bees, Wasps, etc.

596 Vertebrates.

597 Fishes. Pisces.

.1 Pharyngobranchii. Lancelet.
.2 Marsipobranchii. Lampreys.
.3 Elasmobranchii. Sharks, Rays, etc.
.4 Ganoidei. Sturgeons, Garpikes, etc.
.5 Teleostei. True bony fishes.
.6 Batrachia. (Amphibia.)
.7 Ophiomorpha.
.8 Anura. Toads, Frogs.
.9 Urodela. Salamanders.

598 Reptiles. Birds.

.1 Reptiles.
.11 Lacertilia. Lizards.
.12 Ophidia. Snakes.
.13 Chelonia. Turtles.
.14 Crocodilia. Crocodiles.
.15 Ichthyopterygia.
.16 Sauropterygia.
.17 Anomodontia.
.18 Pterosauria.
.19 Dinosauria.
.2 Birds. Aves.
.3 Grallatores. (Waders.)
.4 Natatores. (Swimmers.)
.5 Cursores. (Runners.)
.6 Rasores. (Scratchers.)
.7 Scansores. (Climbers.)
.8 Insessores. (Perchers.)
.9 Raptores. (Birds of Prey.)

599 Mammals. Mammalia.

.1 Monotremata. Duck-billed Platypus.
.2 Marsupialia. Kangaroos, Opossums.
.3 Edentata. Rodentia. Insectivora. Sloths. Rodents. Moles.
.4 Cheiroptera. Bats.
.5 Cetacea. Sirenia. Whales, etc.
.6 Proboscidea. Hyracoidea. Elephants. Hyrax.
.7 Ungulata. Carnivora. Domestic Mammals. See also 636.
.8 Quadrumana. Apes.
.9 Bimana. Man. See also 573, Nat. hist. of man; 610, Medicine.

Useful Arts.

600 Useful Arts.

601 Philosophy. Theories, etc.

602 Compends. Outlines.

603 Dictionaries. Cyclopedias.

604 Essays. Lectures. Addresses.

605 Periodicals. Magazines. Reviews.

606 Societies. Fairs. Exhibitions.

Special exhibitions go with their topics. This is general only.

607 Education. Schools of Technology.

608 Patents. Inventions.

609 History of Useful Arts in General.

For its History, see each special department.

610 Medicine.

.1, Philosophy, Theories; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching, Medical Museums; .8, Collections; .9, History of Medicine.

611 Anatomy. Histology.

May be subdivided by a 0, like 610, if wished. Put Dissection in 611.07. For Malformations see 617.3, Orthopædic Surgery. See also 591.4, Comparative Anatomy; 591.8, Histology.

.1 Circulatory System.

.11 Pericardium.
.12 Heart.
.13 Arteries.
.14 Veins.
.15 Capillaries.

.2 Respiratory System.

.21 Nasal Passages.
.22 Larynx.
.23 Trachea. Bronchi.
.24 Lungs.
.25 Pleura.
.26 Diaphragm and other muscles of respiration.

.3 Digestive System.

.31 Mouth. Tongue. Teeth. Salivary Glands.
.32 Pharynx. Oesophagus.
.33 Stomach.
.34 Intestine.
.35 Rectum. Anus.
.36 Liver. Gall Bladder.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.

.4 Glandular and Lymphatic System.

Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.31, Salivary Glands; 611.69, Mammary Glands.

.41 Spleen.
.42 Lymphatics.
.43 Thymus.
.44 Thyroid.
.45 Suprarenal Bodies.
.46

.6 Genito-Urinary System. Breasts.

.61 Kidneys. Ducts. Ureters.
.62 Bladder. Urethra.
.63 Testes. Spermatic Cord. Scrotum.
.64 Penis.
.65 Ovaries. Fallopian Tubes.
.66 Uterus.
.67 Vagina. Vulva.
.68
.69 Mammary Glands.

611.7 **Motor and Integumentary System.**

.71 Bones. Skeleton.
.72 Articulations. Joints. Cartilages.
.73 Muscles.
.74 Tendons. Fasciæ.
.75 Bursæ. Sheaths of Tendons.
.76 Connective Tissue.
.77 Skin.
.78 Hair. Nails.

.8 **Nervous System. Sensory Apparatus.**

.81 Brain and its Meninges.
.82 Spinal Cord and its Meninges.
.83 Nerves.
.84 Sight.
.85 Hearing.
.86 Smell.
.87 Taste.
.88 Touch.
.89 Ganglia.

.9 **Regional Anatomy.**

.91 Head.
.92 Face.
.93 Neck.
.94 Chest.
.95 Abdomen.
.96 Pelvis.
.97 Upper Extremities.
.98 Lower Extremities.

612 Physiology.

May be subdivided by a 0, like 610, if wished. For Vital Phenomena in general, see 577, Properties of living matter. Use 612.01 for general works on Physiological Chemistry. See also 591.1, Physiology of Animals.

.1 **Blood and Circulation.**

.11 Blood and its Physical Properties. See also 612.23, Changes in Blood.

.1, Red Globules; .2, Leucocytes: .3, Arterial Blood; .4, Venous Blood; .5, Coagulation; .6, Quantity; .7, Color; .8, Other Properties; .9, Blood-making. Sanguification.

.12 Chemical Composition.
.13 Hydraulic Principles of Circulation.
.14 Blood Pressure.
.15 Rapidity of Flow.
.16 Pulse Wave.
.17
.18
.19 Functions of Special Organs.

.2 **Respiration.**

.21 Respiratory Movements.
.22 Gas Exchange.
.23 Changes in Blood. See also 612.11, Blood.
.24 Capacity of the Lungs.
.25 Exhalation of Vapor of Water.
.26 Change of excreted Organic Particles.
.27
.28
.29 Functions of Special Organs.

612.3 **Digestion. Absorption. Nutrition.**

.31 Mouth. Teeth. Salivary Glands.
.32 Stomach. Vomiting, see 616.33.
.33 Intestine.
.34 Pancreas. Pancreatic Fluid.
.35 Liver.
.36 Defecation.
.37
.38 Absorption.

.1, Imbibition; .2, Osmosis; .3, Diffusion; .4, Skin, see also 612.79 and 615.67; .5, Lungs, see also 612.29 and 615.64; .6, Alimentary Canal, see also 612.3; .7, Other Mucous Membranes, see also 615.66; .8, Parenchymatous Absorption.

.39 Nutrition.

.1, Hunger and Thirst; .2, Nutriments; .3, Stimulants; .4, Growth; .5, Repair; .6, Carbohydrates; .7, Fats; .8, Albuminoids. For Diet, see 613.2.

.4 **Secretion. Excretion.**

Divided like 611.4. Add 612.46, Kidneys, Bladder, Urine, etc.; 612.49, for Vicarious Secretion. Put secretions of special systems with those systems; e. g. of the Liver, 612.35.

.5 **Animal Heat.**

.51 Sources of Heat.
.52 Loss of Heat.
.53 Regulation of Heat.
.54 Conditions Influencing Temperature.
.55 Variations of Heat.
.56 Temperature of Body.
.57 Fever. See 616.92, Diseases.
.58

.6 **Reproduction. Development.**

.61 Male Functions of Generation.
.62 Female Functions of Generation.
.63 Impregnation.
.64 Development of Embryo.

For abnormal development of embryo, see 617.3, Deformities.

.65 Growth after Birth.
.66 Period of full Development.

1, Puberty; 2, Menstruation; 3, Fecundity; 4, Lactation.

.67 Period of Decline. Death. See also 577.7, Biology.
.68 Longevity. See 368.3, Life Insurance; 519.5, Probabilities; 614.12, Death Rates.
.69

.7 **Function of Motor and Vocal Apparatus and Skin.**

.71 Protoplasm. See 576.2, Origin of Life.
.72 Cilia.
.73 Smooth Muscles.
.74 Striped Muscles.

For structure and chemical composition of muscles, see 611.73, Anatomy.
1, Contraction; 2, Rigor; 3, Electrical Phenomena; 4, Chemical Changes; 5, Heat Production. See also 612.51, Animal Heat.

.75 Bones. Joints.
.76 Locomotion.
.77
.78 Voice and Speech. See 784.9, Vocal Hygiene; 808.5, Elocution; 534.7, Sound.
.79 Skin. Hair. Nails.

612.8 **Nervous Functions.**

.81 Nerve Fibres.
.82 Central Nervous System. Brain.
.83 Spinal Cord.
.84 Sight. See also 152.1, Mental faculties; 535.7, Optics.
.85 Hearing. See also 152.2, Mental faculties; 534.7, Acoustics.
.86 Smell. Olfaction. See also 152.3.
.87 Taste. Gustation. See also 152.4.
.88 Touch. See also 152.5.
.1, Space; .2, Temperature; .3, Pressure; .4, Pain; .5, Muscular Sense; see also 152.6.
.89 Sympathetic Nervous System. Ganglia.

613 Personal Hygiene.

Care of Health; Prophylaxis; Individual Health; Laws of Health.
.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930–999.

.1 Air and Light.

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.
.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.
.13 Seasons. Time of Day.
.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773, and 614.772.
.15 Purification of Air.
.16 Special Influences. Ozone, Electricity, etc.
.17 Quantity of Air Necessary.
.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.
.19 Sunlight.

.2 Food. Dietetics.

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.
Including food for special classes of people; literary men, soldiers, etc.
.22 Food for Infants.
.23 Food for the Sick.
Including means for giving nutrition, baths, enemeta, forced alimentation, etc.
.24 Fasting. Famine. Starvation.
.25 Excess of Food.
.26 Vegetable Food.
.27 Fruits.
.28 Animal Food. Meats.
.29 Fish, Oysters, etc.

.3 Beverages.

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.
.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.
.33 Microscopical Analysis. For Chemical Analysis, see 543.3.
.34 Biological Analysis.
.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.
.36 Cold Drinks.
.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.
.38 Mineral Waters, Carbonated Waters, etc. See also 614.349, Adulterations; 615.79, Therapeutics.
.39 Other Beverages.

613.4 Cleanliness of Body. Clothing.

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet.
For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.
.42 Warm.
.43 Cold. For Swimming, see 796.
.44 Douche or Shower.
.45 Sea. Salt.
.46 Hot Air. Turkish. Russian. Roman, etc.
.47 Public.
.48 Clothing.
1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, tight boots, support from hips, etc.
.49

.5 Human Habitation and Resort.

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.
These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

.51 Homes.
.52 Hotels.
.53 Tenements.
.54 Schools. Colleges. See School hygiene, 371.7.
.55 Churches, Theaters, Halls, etc.
.56 Hospitals. Asylums.
.57 Prisons. Reformatories.
.58
.59 House Furnishing.
1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 Hygiene of Employment.

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.
Occupations made Injurious.
.62 By Inhalation of Vapors and Gases.
Bleachers, match-makers, lard refiners, etc.
.63 By Inhalation of Dust or by Absorption.
Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.
.64 By Elevated, Low, or Variable Temperature.
Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.
.65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.
Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.
.66 By Accidents. See Public health, 614.8, Protection from accidents.
Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.
.67 Military Hygiene. Barracks, Camp and Tent Life.
.68 Naval Hygiene. Ship Life.
.69 Hygiene of Travel and Exploration.

613.7 **Hygiene of Recreation and Sleep.**

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body.
For Curative gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games.

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, are grouped here by attraction.

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78 [illegible]

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 **Hygiene of Nervous System.**
Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance.

.81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.

.82 Opium and Hasheesh. See also 178.8.

.83 Chloral and Caffeine. See also 178.8.

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177.

.88 Luxury. Privation.

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.

.9 **Hygiene of Offspring. Heredity.**
See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.

.93 Transmitted Disease.
See also special diseases in 616.

.94 Stirpiculture.

614 **Public Health.**
Public Hygiene. Public Sanitation. State Medicine. Preventive Medicine. See also 628, Sanitary Engineering; 352.4, Boards of Health.
.02, Compends; .03, Dictionaries, Cyclopædias; .04, Essays; .05, Periodicals; .06, Societies, Conventions; .07, Education; .08, Sanitary Appliances, Exhibitions; .09, History, Description, Legislation, Reports, etc., divided like 930–999, e.g. 614.0942, Public Health in England.

.1 **Registration and Vital Statistics.** See 312, Population.

.11 Births and Birth-rates.

.12 Deaths and Death-rates.
Divided geographically like 930–999, e.g. Death-rate in England, 614.1242.

.13 Mortality at Different Ages.
For Life Insurance, Life Tables, Biometry, etc., see Life Insurance, 368.3, and Life Contingencies, 519.5; Longevity. 612.68.

.131 Still-births.

.132 Infant Mortality.

.133 Mortality in Childhood.

.134 " " Adult Life.

.135 " " Old Age.

.14 Mortality of Sexes, Races, etc.

.141 " " the Sexes.

.142 " " Males.

.143 " " Females.

.144 " " Races, Colored, White, Indian, etc.

.145 " " City and Country.

.15 " " Different Occupations. See also 613.6.

.16 " from Special Diseases. Causes of Death.

.17 Marriage.

.18 Divorce. See also 173.1, Family Ethics.

.2 **State Control of Medicine.**

.21 Medical Education and Degrees. See 610.7; 378.2, Academic Degrees.

.22 Anatomy and Vivisection Laws. See 179.4, Ethics.

.23 Expert Testimony and other Medico-Legal Relations. See 340.6, Medical Jurisprudence.

.24 Registration of Physicians, Dentists, Pharmacists, etc. License to Practice.

.25 Regulation of Medical Practice. See 174.2, Professional Ethics, Physicians.

.26 Quackery and Malpractice.

.27 Nostrums and Patent Medicines. See also 614.353, Adulterations.

.28 Sale of Poisons. See 615.9, Toxicology.

.29 Medical Police.

.3 **Adulterations. Inspection of Articles Liable to Affect Public Health.** Public analysts. State laboratories. For chemical analysis see 543.

.31 Inspection of Food. For chemical analysis see 543.1; Hygiene, 613.2.

.311 Sugars. Syrups. Confectionery.

.312 Cereals. Starches. Bread.

.313 Lards. Fats. Oils. See 614.325–6, Butter, Oleomargarine.

.314 Spices. Condiments.

.315 Yeast. Baking Powders. Cream of Tartar.

.316 Vegetables. Fruits. (Fresh.)

.317 Meats. Fish. (Fresh.)

.318 Canned or Preserved Food. Vegetables. Fruits.

.319 Meat. Fish. Oysters. (Preserved.)

.32 Milk and Milk Products.

.321 Milk Analysis. See also 543.2, chemistry.

.322 Milk of Known Purity.

.323 Milk as Sold to Consumer.

.324 Cream. Skimmed Milk. Condensed Milk. Buttermilk. Kumiss.

614.325 Butter and its Imitations.
.326 Oleomargarine.
.327 Cheese and its Imitations.
.33 Other Articles of Food.
.34 Inspection of Beverages. For chemical analysis see 543.1; Hygiene, 613.3.
.341 Fermented.
.342 Wine.
.343 Brewed.
.344 Beer.
.345 Distilled.
.346 Fruit Drinks. Lemonade, Shrub, etc.
.347 Tea. Coffee. Chocolate. Cocoa. See also 613.37, Hygiene.
.348 Mineral Waters. Soda Water. See also 613.38, Hygiene; 615.79, Therapeutics.
.349 Mixed Drinks.
.35 Inspection of Drugs. For chemical analysis see 543.4.
.351 Officinal or Pharmacopœial Drugs.
.352 Non-officinal Drugs.
.353 Empirical or Patent Medicines. See also 614.27, State control.
.354 Cosmetics.
.355 Poisonous Cosmetics.
.36 Inspection of Tobacco.
.37 Inspection of Pigments, Wall and other Papers, Textile Fabrics, Toys, etc.

.4 Contagious and Infectious Diseases. General.

.41 Causes and Origin. See 589.95, Bacteria, Microbes; 616.01, Germ theory of disease.
.42 Geographical Distribution. Climatology.
.43 Modes of Propagation and Communication.
.44 Prevention and Restriction. See Ambulances, 614.882.
.45 Isolation, Lazarettos, etc.
.46 Quarantine, etc.
.461 Maritime Quarantine.
.462 Inland "
.463 Control of Rags, etc.
.47 Protective Inoculation.
.471 Against Small-pox. See also 616.912, Pathology.
.472 Variolation.
.473 Vaccination.
.1, Bovine Vaccination; .2, Humanized Vaccination; .3, Vaccinal Syphilis; .4, Re-vaccination; .5, Vaccinisation; .6, Re-vaccinisation; .7, Retro-vaccination; .8, Compulsory Vaccination; .9, Optional Vaccination.
.474 Anti-vaccination.
.475 Against Cholera. See also 616.932, Pathology.
.476 " Yellow Fever. See also 616.928, Pathology.
.477 " Hydrophobia. Pasteurism. See also 616.953, Pathology.
.48 Disinfection. Houses, Clothing, Rags, Workshops, Cars, Ships, Camps, Air, Soil, Persons, Sewers, Vaults, Excreta. Dead, see Embalming, etc., 614.64.
.481 Fumigating and other Apparatus. 1, Stationary; 2, Portable.
.482 Disinfectants. Antiseptics. Deodorizers.
Treated with reference to Public Health. See also Materia Medica 615.777 & 615.778.
.483 Heat.
.484 Chemical Disinfectants.
.485 Carbolic.
.486 Salicylic.
.487 Chlorides.
.488 Copperas.
.489
.49 Epidemics. Plagues.

614.5 Contagious and Infectious Diseases. Special.

These heads are for Public Health discussions only. For treatment, etc., see Pathology, 616.

.51 Filth Diseases.
.511 Typhoid or Enteric Fever.
.512 Diphtheria.
.513 Diarrhœal Diseases.
.514 Cholera.
.515 Cholera-infantum.
.516 Dysentery.
.517 Diarrhœa.
.52 Exanthemata.
.521 Small-pox.
.522 Scarlet Fever.
.523 Measles.
.524 Rötheln.
.525 Chicken-pox.
.526 Typhus.
.53 Malarial Fevers.
.531 Intermittent Fever.
.532 Remittent Fever.
.54 Other Contagious and Infectious Diseases.
.541 Yellow Fever.
.542 Phthisis.
.543 Whooping-cough.
.544 Mumps.
.545 Puerperal Fever. See also 618.
.546 Leprosy.
.547 Syphilis.
.548 Gonorrhea.
.55 Parasitic Diseases.
.56 Diseases Communicated from Lower Animals.
.561 Anthrax. Charbon.
.562 Trichiniasis.
.563 Hydrophobia.
.564 Glanders.

.6 Disposal of the Dead.

See 393, Customs. Treatment of the dead.

.61 Burial.
.611 Earth-burial.
.612 Tomb-burial.
.613 Burials in Churches. Intra-mural.
.614 Use of Perishable Coffins.
.62 Cremation. Crematories.
.63 Transportation of the Dead.
.64 Embalming and Disinfection of the Dead. Use of Ice.
See 614.48, Disinfection; 615.777, Disinfectants.
.65 Effect of Cemeteries on Health.
.651 By Water Pollution.
.652 " Air "

614.7 Hygiene of the Air and Ground. Nuisances.

See 613.1, Air, Hygiene; 613.6, Hygiene of employment; 628.5, Industrial sanitation.

.71 Air Pollution by Dust and Smoke.
.72 Air Pollution by Noxious Gases, Mineral Trades, Chemical Works.
.721 Carbon Compounds.
.722 Carbonic Oxide, Carbonic Acid, Carburetted Hydrogen.
.723 Illuminating Gases. Gas Works.
.724 Mineral Oil Refining.
.725 Sulphur Compounds.
.726 Chlorine "
.727 Nitrogen "
.728 Phosphorus "
.729 Other.
.73 Air Pollution by Vegetable Trades.
.731 Brewing.
.732 Distilling.
.733 Vinegar Making.
.734 Sugar Refining.
.735 Charcoal Burning.
.736 Varnish Making.
.74 Air Pollution by Animal Trades.
.741 Slaughter Houses. Abattoirs. Fish.
.742 Rendering Works. Bone-boiling. Tripe and Gut Cleaning.
.743 Pork Packing. Lard Refining.
.744 Soap Making.
.745 Tanning.
.746 Glue Making.
.747 Lampblack.
.748 Commercial Fertilizers.
.75 Storage and Handling of Noxious and Offensive Materials.
.76 Other Air Pollutions. See 628, Sanitary engineering.
.761 Stables. Stable Manure.
.762 Hog Styes.
.763 Offal. Dead and Diseased Animals and Fish.
.764 Vaults. Cess-pools. Water Closets, Privies, Urinals, Night-soil.
.765 Sewers and Sewer Outlets. Sewer Gas.
.77 Conditions of Soil as Affecting Health. Topography. Sanitary Surveys.
.771 Analysis of Soils. See 543.7, Chemistry.
.772 Soil Moisture. Hygiene of Natural Water Courses and of Marshes. See 613.14, Hygiene.
.773 Ground Atmosphere. See 613.14, Hygiene.
.774 Solid Constituents of Soil.
.775 Malarious Soils. See 613.14, Hygiene.
.776 Recovery of Soils from Pollution.
.78 Air and Ground in Towns.
.781 Laying Out of Towns and Streets.
.782 Subways and Elevated Ways. See 628.47, Sanitation of Towns.
.783 Parks. Air Spaces.
.784 Hight of Buildings and Proportion of Occupiable Area. See 614.85, Building laws.

614.8 Protection of Human Life from Accidents, Casualties, etc.

See 614.66 Hygiene of employment.

.81 Drowning.
.811 Rescue of the Drowning.
.812 Resuscitation of the Drowned. First Help.
.82 Suffocation.
By gases, in vaults, mines, etc.; see 622.8, Mining dangers. By illuminating gases.
.83 Explosions.
.831 Manufacture and Storage of Explosives and Combustibles. See 662, Chemical technology.
.832 Gunpowder.
.833 Dynamite, etc.
.834 Inspection of Kerosene, etc.
.835 " of Illuminating Gas.
.836 " of Electric Apparatus.
.837 " of Steam Boilers.
.84 Fires.
.841 Fire Prevention.
.842 " Detection.
.843 " Extinction. See 352.3, Fire Department.
.844 Automatic.
.845 Chemical Extinguishers.
.846 Fire Engines. Water Towers. See 621.68, Pumping engines.
.847 " Escapes and Other Apparatus.
.848 " Exits, etc., from Public Buildings.
.85 Building Laws. Inspection of Buildings. See 614.784, Hight of Buildings.
.86 Protection of Travelers.
.861 Travel on Land.
.862 on Highways.
.863 " Railroads.
.864 Travel on Water.
.865 Light-houses, Buoys, etc.
.866 Pilots.
.867 Boats, Life-preservers, etc.
.868 Rescue of Shipwrecked. Life-saving Service.
.87 Exposure to Cold. Hospice of St. Bernard.
.88 Aid to Injured.
.881 Ambulance.
.882 Ambulance for Contagious Diseases. See also 614.44.
.883 "The Bed Wagon."

.9 Hygiene of Animals. Veterinary Sanitation.

.91 Infectious Diseases of Domestic Animals.
.92 Parasites of Animals. See 591.69, Economic zoölogy.
.93 Animal Diseases Communicable to Man. See also 614.56.
.94 Care and Housing of Animals.
.95 Feeding of Animals.
.96 Transportation of Animals.
.97 Methods of Slaughtering.
.971 Painless Extinction of Animal Life.

615 Materia Medica and Therapeutics.

.02, Compends; .05, Pharmaceutical Journals; .06, Pharmaceutical Societies; .07, Education, Schools of Pharmacy; .09, History.

.1 Materia Medica. Drugs.

For Examining boards, Laws, etc., see 614.24, Registration of Pharmacists. See also 614.35, Adulteration of drugs; 543.4, Chemical analysis.

.11 Pharmacopœias.
.12 Dispensatories.
.13 Formularies.
.14 Prescription writing. Posology.

.2 Inorganic Drugs.

Divided like 546. 615.218, Phosphorus; 615.258, Mercury; 615.272, Iron.

.3 Organic Drugs.

.31 Carbon Compounds. Divided chemically like 547.
.32 Vegetable Products. Divided botanically like 580.
.33 Vegetable Products. Divided by character.

1, Starches; 2, Sugar; 3, Glucosides; 4, Tannins; 5, Gums; 6, Drugs containing Alkaloids; 7, Bitters; 8, Organic Acids.

.34 Fixed Oils and Acids.
.35 Ferments. Diastase, Pepsin, etc.

.4 Practical Pharmacy.

.5 Therapeutics. Action of Medicines in General.

.51 Certainty of Medicines.
.52 Antagonism of Medicines.
.53 Law of Similars. Homœopathy.

Homœopathic works are classed with the subjects treated. This head is for Hahnemann's theory only.

.54 Influence of Age.

Infant therapeutics. Therapeutics of old age.

.55 Influence of Sex.
.56 Influence of Environment.
.57 Influence of Idiosyncracy.

.6 Administration of Medicines.

.61 By Stomach.
.62 " Rectum.
.63 " Subcutaneous tissue. Hypodermic medication.
.64 " Lungs. Inhalation. See also 612.385, Absorption.
.65 " Veins. Transfusion of blood.
.66 " Serous and Mucous Membranes. Peritoneum, Vagina, etc. See also 612.387, Absorption.
.67 " Skin. Baths. See also 612.384, Absorption.

.7 Medicines grouped by Effects.

Treatises on specific drugs, Digitalis, Ergot, etc., are classed in the divisions of Materia Medica, 615.2–615.3; Iron, 615.272; Digitalis, 615.32381.

.71 Drugs acting on Circulatory System.
.711 Stimulants.

Alcohol, Ammonia, Digitalis, Coffee, Ergot.

.716 Depressants.

Aconite, Veratrum group, Nitrites.

.72 Drugs acting on Respiratory System.
.721 Expectorants.
.726 Errhines. Sneezing.

615.73 Drugs acting on Digestive System.
.731 Emetics.

Ipecac, Mustard, Metallic Salts, Apomorphine.

.732 Cathartics.

1, Laxatives; 2, Salines; 3, Purgatives; 4, Hydragogues; 5, Drastics; 6, Mercurials.

.733 Anthelmintics.
.734 Aids to Digestion.

1, Bitters, Tonics; 2, Ferments, Pepsin, Pancrealine, etc.; 3, Acids, Antacids.

.735 Demulcents, Emollients, etc.

Bismuth, Oxalate of Cerium, etc.

.74 Drugs acting on Glandular System.
.741 Sialagogues. (Saliva.)
.742 Cholagogues. (Bile.)
.743 Diaphoretics. (Perspiration.)

Pilocarpine, Heat, Exercise.

.75 Antipyretics. Antiperiodics.

Quinine, Salicylates, Coal-tar products, Kairin, Antipyrin, Antifebrin, Cold, Baths. See also 613.41, Baths.

.76 Drugs acting on Genito-Urinary System.
.761 Diuretics.

Water, Citrates, Acetates, Digitalis, Caffeine, Copaiba.

.766 Uterines. Oxytocics.

Viburnum, Ergot, etc.

.77 External Agencies.
.771 Irritating.
.772 Astringents.
.773 Rubefacients.
.774 Epispastics. Blisters.
.775 Escharotics. Caustic potassa.
.776 Protective. Emollient.

Fats, Oils, Powders, Starch, Bismuth, Oxide of Zinc.

.777 Deodorants. Disinfectants. See 614.48, Disinfection; 614.64, Disinfection of dead.
.778 Antiseptics. Germicides.
.78 Drugs acting on Nervous System. See also 615.95, Neurotic Poisons.
.781 Anæsthetics. Chloroform, Ether.
.782 Hypnotics. Chloral, Bromides.
.783 Analgesics. Opium.
.784 Mydriatics. Belladonna.
.785 Excitants. Strychnine.
.786 Depressants. Conium.
.788
.789 Other Drugs.

Camphor, Valerian, Asafetida.

.79 Mineral Waters. See also 613.38, Hygiene; 553.7, Occurrence in nature.

.8 Other Remedies.

.81 Mechanical Remedies.
.811 Blood-letting. Venesection. Cupping.
.812 Setons and Issues.
.813 Bandages. Ligatures.
.814 Acupuncture.
.815 Pneumatic Aspiration.
.82 Massage. See also 613.71, Gymnastics.

615.83 Imponderable Remedies.
.831 Light. Blue glass.
.832 Temperature. Heat. Cold.
.833 Moisture.
.834 Climate. See also 613.1, Hygiene.
.835 Altitude.
.836 Pneumatic Differentiation.
.837 Music.
.84 Electricity. Electro Therapeutics. See 537.87.
.85 Cures. —
.851 Mind Cure. Influence of mind on body. See also 130, Mind and Body.
.852 Faith Cure. See 265.8, Religion.
.853 Water Cure.
.854 Food Cures. Grapes, Milk, Beef, etc.
.855 Thomsonianism. Herb Doctors.
.856 Perkinism. Metallic Tractors.
.86
.87
.88
.89 Ancient and Mediæval Remedies.
Including those of modern uncivilized peoples.

.9 Toxicology. Poisons.

For detection of poisons, see 543.5; Sale of poisons, 614.28; Poisoned wounds, 617.148.

.91 Irritant Poisons.
.92 Mineral Irritants.
.921 Acid Poisons.
.922 Alkaline Poisons.
.923 Non-metallic Poisons.
.924 Phosphorus. See also 615.218, Drugs.
.925 Metallic Poisons.
.926 Arsenic. See also 615.219, Drugs.
.927 Mercury. See also 615.258, Drugs.
.928 Lead. See also 615.251, Drugs.
.929 Copper. See also 615.256, Drugs.
.93 Vegetable Irritants.
Hellebore, Aloes, Croton oil, etc.
.94 Animal Poisons.
Cantharides, Diseased meat, Ptomaines, Tyrotoxicon, etc.
.95 Neurotic Poisons. See also 615.78, Drugs acting on nervous system.
.96 Cerebral or Narcotic Poisons. Carbonic oxide and acid.
.961 Opium.
.962 Prussic Acid.
.963 Cyanides.
.964 Alcohol.
.965 Ether.
.966 Chloroform.
.967 Chloral Hydrate.
.97 Spinal Poisons.
Nux vomica, Strychnia.
.98 Cerebrospinal Poisons.
Aconite, Belladonna, Lobelia.
.99 Cerebrocardiac Poisons.
Digitalis, Tobacco.

616 Pathology. Diseases. Treatment.

May be subdivided by a o like 610, if wished. Use 616.01 for Etiology, Germ theory, Classification of diseases. Use 616.07 for Diagnosis, Study of disease, and subdivide it as follows: 1, Pulse: 2, Tongue; 3, Eye, Skin, etc.; 4, Auscultation, Percussion; 5, Thermometry; 6, Chemistry, Urine analysis; 7, Microscopy; 8, Pathological anatomy; 9, Post-mortem examination.

.1 Diseases of Circulatory System.

.11 Membranes of the Heart.
.12 Heart. Angina Pectoris.
.13 Arteries.
14 Veins.
.15 Blood.

.2 Diseases of Respiratory System.

01, Croup; 02, Hay Asthma, Hay Fever; 03, Influenza, Epidemic Catarrh; 04, Whooping Cough, see also 614.543; 05, Coryza, Catarrh; 06, Asphyxia.

.21 Nose. Naso-pharyngeal Space.
.22 Larynx.
.23 Trachæa. Bronchi. Bronchitis. Asthma.
.24 Lungs.
1, Pneumonia, Lung Fever; 2, Congestion; 3, Hemorrhage; 4, Abscess; 5, Gangrene; 6, Phthisis, Consumption, see also 614.542; 7, Embolism and Aneurism of Pulmonary Artery; 8, Emphysema; 9, Collapse.
.25 Pleura. Pleurisy.

.3 Diseases of the Digestive System.

For diseases of teeth see 617.6.

.31 Mouth. Tongue. Fauces.— Sore Throat. Quinsy. Mumps. See also 614.544
.32 Pharynx. Œsophagus.
.33 Stomach.— Gastritis. Dyspepsia. Vomiting.
.34 Intestines.— Hernia. Diarrhœa. Constipation. Colic.
.35 Rectum. Anus.— Piles.
.36 Liver. Gall-Bladder.— Jaundice.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.— Peritonitis.
.39 Dietetic Diseases.
Surfeit. Starvation. Scurvy. Dyspepsia.

.4 Diseases of the Lymphatic System.

.41 Spleen.
.42 Lymphatics. Thoracic Duct.
.43 Thymus.
.44 Thyroid Body. Goître.
.45 Suprarenal bodies.

.5 Dermatology. Skin Diseases.

.51 Inflammatory Affections.
Diffuse, Papular, Scaly. Nettlerash. Hives.
.52 Catarrhal, Vesicular, Pustular. Eczema. Shingles. See also 614.561.
.53 Disorders of Sebaceous Glands.
.54 Hypertrophies. Atrophies.
Corns. Warts. White hair. Baldness.
.55 New Formations. Pigmentary Changes.
Albinism. Freckles.
.56 Disorders of Sweat Glands.
.57 Parasitic Diseases. See 616.96, Parasitic Diseases.
.58 Other Skin Diseases.
Chilblain. Frostbite. Chaps.

616.6 **Diseases of Genito-Urinary System.**

For Diseases of women, see 618.

.61 Kidneys. Ducts.— Bright's Disease.
.62 Bladder.— Calculus.
.63 Urinary Disorders.— Diabetes.
.64 Male Urethra.
.65 Prostate.
.66 Penis.
.67 Scrotum.
.68 Spermatic cord. Testes.
.69 Functional Diseases of Male Generative Organs.— Spermatorrhœa. Impotence.

.7 **Diseases of the Organs of Locomotion.**

.71 Bones (except spine).
.72 Joints (except spine).
.73 Spine.— Curvature.
.74 Muscles.
.75 Tendons. Fasciæ.
.76 Bursæ. Sheaths of Tendons.
.77 Connective Tissue.

.8 **Diseases of Nervous System.**

.81 Diseases relating to Cerebro-Spinal Circulation. Apoplexy.
.82 Diseases relating to Cerebro-Spinal Meninges.
.83 Structural Diseases of Brain and Cord.
.84 Functional Diseases of Brain and Cord.

1, Vertigo; 2, Paralysis; 3, Neurasthenia; 4, Spinal Irritation; 5, Eclampsia, Convulsions.
For Insanity see 132.1.

.85 Neuroses.

1, Chorea, St. Vitus's Dance; 2, Hysteria, see 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria; 3, Epilepsy; 4, Tetanus, Lockjaw; 5, Aphasia; 6, Anæsthesia, Hyperæsthesia; 7, Megrim, Sick-headache.

.86 Neuroses due to special Poisons.

1, Alcoholism, see also Dipsomania, 132.7; 2, Metallic Tremor.

.87 Diseases of Nerves.— Neuralgia. Cramp.
.88 Diseases of Sympathetic System.

.9 **General Diseases.**

.91 Infectious Diseases.

1, Eruptive Fevers; 2, Small Pox, see also 614.471 and 614.521; 3, Cow Pox; 4, Chicken Pox, see also 614.525; 5, Measles, see also 614.523; 6, Rubeola, see also 614.524; 7, Scarlet Fever, Scarlatina, see also 614.522.

.92 Other Fevers. General Works on Fevers. See 612.57, Animal Heat.

1, Dengue, Break-bone Fever; 2, Typhus, see also 614.526; 3, Plague; 4, Relapsing Fever, Famine Fever; 5, Cerebro-spinal Fever; 6, Simple Continued Fever; 7, Enteric Fever, Typhoid Fever, see also 614.511; 8, Yellow Fever, see also 614.476 & 614.541.

.93 Diphtheria. Cholera. Malarial Fever.

1, Diphtheria, see also 614.512; 2, Asiatic Cholera, see also 614.475 and 614.514; 3, Sporadic Cholera; 4, Epidemic Diarrhœa, see also 614.517; 5, Dysentery, see also 614.516; 6, Malarial Fever, see also 614.53.

.94 Septic Diseases.

1, Phagedæna; 2, Erysipelas; 3, Pyæmia; 4, Septicæmia.

.95 Venereal Diseases. Hydrophobia, etc.

1, Syphilis, see also 614.547; 2, Gonorrhœa, see also 614.548; 3, Hydrophobia, see also 614.477 and 614.563; 4, Glanders, see also 614.564; 5, Horse Pox; 6, Splenic Fever.

616.96 Parasitic Diseases. See also 614.55.
.961 Animal Parasites. See 591.69, Economic Zoölogy; 614.92, Parasites of animals.
.962 Entozoa.
.963 Trematoda. Flukes.
.964 Cestoda. Tape-worms.
.965 Nematoda. Round worms, Thread worms, Trichinæ. See also 614.562.
.966 Acanthocephala. Thorn-headed worms.
.967 Insecta parasitica. Maggots.
.968 Ectozoa.

1, Insecta parasitica, Musquitoes, Gnats, Bed bugs, Fleas, Lice; 5, Arachnida parasitica, Mites, Ticks; 8, Suctoria parasitica, Leeches.

.969 Vegetable Parasites. See 581.69, Economic Botany.
.97 Effects of Poisons. See 615.9, Toxicology.
.98 Effects of Injuries and Climate.

1, Presence of foreign bodies; 2, Mechanical injuries; 3, Excessive Exertion and Strain; 4, Excessive Venery; 5, Privation; 6, Exhaustion; 7, Chemical agents; 8, Climate.

.99 Other General Diseases.
.991 Rheumatism, Rheumatic Fever. Gout.
.992 Tumors.
.993 Non-malignant. Cysts. Wens.
.994 Malignant. Cancer.
.995 Tubercle.
.996 Scrofula. Rickets.
.997 Myxœdema. Cretinism.
.998 Leprosy. See also 614.546.

617 **Surgery.**

May be subdivided by a o like 610, if wished.

.1 **Injuries.**

.11 Burns and Scalds.
.12 Lightning and Electric Shock.
.13 Contusions and Abrasions.
.14 Wounds.

1, Incised; 2, Contused; 3, Lacerated; 4, Punctured; 5, Gun-shot, see 617.99 Military surgery; 6, With lodgment of foreign bodies; 7, With complete separation of parts; 8, Poisoned, see 615.9 Toxicology.

.15 Fractures.
.16 Dislocations.
.17 Sprains.
.18 Asphyxia.

.2 **Results of Injuries.**

Constitutional effects and other complications. See also 616.94, Septic diseases.

.21 Shock.
.22 Inflammation.
.23 Abscess. Sinus. Fistula.
.24 Ulcers. Sores.
.25 Mortification. Gangrene.
.26 Traumatic Fever.
.27 Tetanus. See also 616.854.

617.3 **Orthopædic Surgery. Deformities.**

For convenience the whole subject of deformities is classed here, though many of them have no surgical treatment. See also 573.8, Dwarfs and Giants; 573.9, Monstrosities; 613.91 Congenital defects.

.31 Incomplete Development or Growth.
Divided like 611, Anatomy.

.32 Incomplete Coalescence of Parts. Harelip.
.33 Coalescence of Parts.
.34 Extension of Commissure (Apparent Duplication).
.35 Coalescence of Fœtuses. Siamese Twins.
.36 Supernumary Parts or Organs. Extra Fingers or Toes.
.37 Disproportionate Growth of Parts.
.38 Transposition or Displacement of Parts.
.39 Congenital Distortions, including Talipes, Club Foot.

.4 **Surgical Operations.**

.41 Circulatory System.
.42 Respiratory System.
.43 Digestive System.
.44 Glandular and Lymphatic System.
.45
.46 Genito-Urinary System.
.47 Motor and Integumentary System.
.48 Nervous System.

.5 **Regional Surgery.**

.51 Head. Trephining.
.52 Face. Mouth. See 617.6, Dentistry; 617.7, Eye; 617.8, Ear.
.53 Neck. Throat.
.54 Chest.
.55 Abdomen.
.56 Pelvis.
.57 Upper Extremities. Artificial Arms, Hands, etc.
.58 Lower Extremities. Artificial Legs, Feet, etc.

.6 **Dentistry. Diseases of Teeth.**

.61 Diseases of Dental Pulp.
.62 Diseases of Dentine and Cementum.
.63 Diseases of Dental Periostcum.
.64 Malposition and Malformation of Teeth.
.65 Odontalgia. Toothache.
.66 Extraction of Teeth.
.67 Stopping Teeth.
.68 Transplanting Teeth.
.69 Artificial Teeth.

.7 **Ophthalmic Surgery. Diseases of the Eye.**

.71 Conjunctiva. Cornea. Sclerotic. Ophthalmia.
.72 Iris. Choroid. Ciliary Body.
.73 Optic Nerve. Retina.
.74 Lens and its Capsule. Vitreous Humor. Affections of the Glcbe. Cataract.
.75 Disorders of Vision.
Myopia, Shortsightedness, Astigmatism, Color-blindness.
.76 Muscular Apparatus. Lachrymal Apparatus.
Strabismus, Squint.
.77 Eyelids.
.78 Orbit and Neighboring Parts.
.79 Artificial Eyes.

617.8 **Diseases of the Ear.**

.81 Affections of External Ear.
.82 Auricle.
.83 Auditory Canal.
.84 Affections of Middle Ear.
.85 Membrana Tympani.
.86 Eustachian Tubes.
.87 Mastoid Cells.
.88 Affections of Internal Ear.
.89

.9 **Operative Surgery.**

See 615.781, Anæsthetics.

.91 Armamentaria. Surgical Instruments.
.92 Orthopædic Appliances. Splints, Trusses, etc.
See 617.3, Orthopædic surgery.
.93 Surgical Dressings.
.94 Amputation. Resection.
.95 Plastic Surgery.
.96
.97
.98
.99 Military Surgery.

618 Diseases of Women and Children. Obstetrics.

.1 **Gynæcology. Diseases of Women.**

.11 Ovary.
.12 Fallopian Tube.
.13 Periüterine Diseases.
.14 Uterus and Cervix.
.15 Vagina.
.16 Vulva.
.17 Functional and Symptomatic Disorders.
Diseases of Menstruation. Leucorrhœa. Sterility.
.18
.19 Diseases of Breast.

.2 Obstetrics.

.21 **Pregnancy. Physiology.**

.22 Diagnosis. Signs of Pregnancy.
.23 Duration.
.24 Hygiene. Management.
.25 Multiple Pregnancy. Twins, etc.

.3 **Pathology of Pregnancy.**

Diseases of Pregnancy and their Treatment.

.31 Ectopic Gestation. Extra-uterine Pregnancy.
.32 Pathology of Ovum.
.33 Death and Retention of Fœtus.
.34 Pathology of Fœtal Appendages.
.35 Decidua.
.36 Placenta.
.37 Amnion.
.38 Umbilical Cord.
.39 Abortion. Miscarriage. Stillbirth. Molar Pregnancy.
See 173.4, Infanticide; 340.6, Medical jurisprudence; 343, Criminal law.

618.4 **Parturition. Labor. Physiology.**

.41 Mechanism of Labor.
.42 Presentations. Positions.
.43 Clinical Course and Phenomena.
.44 Conduct of Normal Labor. Management.

.5 **Pathology of Labor.**

Abnormal Labor from Faults
.51 of Powers. Anomalies of Expellent Forces.
.52 of Passages. Mechanical Obstacles to Expulsion of Fœtus.
.53 of Child. Abnormalities of Fœtus. See 617.3, Deformities. Complications.
.54 Hemorrhage.
.55 Rupture or Laceration of Genital Tract.
.56 Retention of Placenta.
.57 Inversion of Uterus.
.58 Prolapsus Funis.
.59 Other Complications.

.6 **Puerperal State. Physiology.**

Management, including care of child.

.7 **Pathology of Puerperal State. Puerperal Diseases.**

.71 Diseases of Lactation. Milk Fever. Mastitis, etc.
.72 Puerperal Fever. See 614.545, Public health.
.73 Metritis. Peritonitis, see also 616.38. Cellulitis.
.74 Septicæmia, see also 616.944. Pyæmia, see also 616.943.
.75 Convulsions. See 616.845, Eclampsia.
.76 Puerperal Mania. See 132.1, Insanity.
.77 Phlebitis. Venous Thrombosis. Phlegmasia Dolens. See 616.14, Diseases of veins.
.78 Other Puerperal Affections.
.79 Sudden Death after Delivery.

.8 **Obstetric Operations.**

.81 Application of Lever and Forceps.
.82 Version.
.83 Embryotomy.
.84 Dilatation of Os and Cervix.
.85 Symphyseotomy.
.86 Cæsarian Section.
.87 Removal of Placenta.
.88 Induction of Labor. Removal of Ovum.
.89 Intra-uterine Injections. Antiseptics in Midwifery.

.9 **Pædiatrics. Diseases of Children.**

619 Comparative Medicine. Veterinary.

.1 **Horses.**
.2 **Cattle.**
.3 **Sheep, Goats.**
.4 **Swine.**
.5 **Poultry.**
.6 **Birds.**
.7 **Dogs.**
.8 **Cats.**
.9 **Other.**

620 Engineering.

.01, Statistics; .02, Quantities and Cost; .03, Contracts and Specifications; .04, Designs and Drawings; .05, Executive; .06, Working and Maintenance; .07, Laws; .08, Patents; .09, Reports.
.1, Strength of Materials; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Tables and Calculations; .9, History of Engineering.

621 Mechanical Engineering.

May be subdivided like 620 and 620.0.

.1 **Steam Engineering.** See 536.81.

.11 Mechanism of Steam Engine.
.12 Marine Engines and Ship Propulsion. See 699.
.13 Locomotive Engines.
.14 Traction Engines.
.15 Portable Engines.
.16 Stationary Engines.
.17
.18 Steam Generation. Boilers. Furnaces.
.19 Steam Heating. See 697, 536.83, 628.8, 644.

.2 **Water Engines or Motors.**

.21 Water Wheels. See 532.84.
.22 Overshot and Breast Wheels.
.23 Undershot Wheels.
.24 Turbines.
.25 Water Pressure Engines. See 532.82.
.26 Hydraulic Presses. See 532.81.
.27 Hydraulic Ram. See 532.83.
.28
.29 Mill Dams. Sluices, etc. See 627.8.

.3 **Electrical Engineering.**

.31 Dynamo Machines. See 537.83.
.32 Electric Lighting. See 537.83.
.33 Electric Railways.
.34 Transmission of Electric Force. See 537.84.
.35 Storage of Electric Force. See 537.84.

.4 **Air and Gas Engines and other Motors.**

.41 Caloric Engines.
.42 Compressed Air Engines.
.43 Ignited Gas Engines. See 536.82.
.44 Binary Vapor Engines.
.45 Windmills.
.46 Animal Motors. Tread Mills.
.47 Solar Engines.

.5 **Air Compressors. Ice Machines.**

.6 **Blowing and Pumping Engines.**

.61 Piston Blowers.
.62 Rotary Blowers. Fans.
.63 Centrifugal Blowers.
.64 Steam Pumps and Pumping Engines.
.65 Piston Pumps.
.66 Rotary Pumps.
.67 Centrifugal Pumps.
.68 Fire Engines. See 352.3, Fire Dep't; 614.84, Fires.
.69

621.7 **Mills and Manufacturing Works.**

.8 **Mill Work and Mechanism of Transmission.**

.81 Principles of Mechanism. See 531.8.
.82 Journals, Shafting, etc.
.83 Toothed Wheels.
.84 Valve Motions and Gears.
.85 Machinery and Mill Gearing.
.86 Hoisting and Conveying Machinery.
.87 Cranes and Elevators.
.88
.89 Lubricants. Friction. See also 531.4, Mechanics.

.9 **Machine Tools.**

.91 Planing Machines.
.92 Grinding and Filing.
.93 Cutting and Sawing.
.94 Turning and Milling. Lathes.
.95 Perforating. Drills.
.96 Punching and Shearing.
.97 Hammers. Riveting.
.98 Bending. Straightening. Shaping.
.99 Fastening. Bolts. Rivets. Screws.

622 Mining Engineering.

May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009.

.1 **Exploration and Prospecting.**

.11 Theory. Applied Geology, etc.
.12 Prospecting. Practical Methods.
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19.
.17
.18
.19 Mining Prospectuses. See 553

.2 **Practical Mining.**

.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering. Masonry lining. See also 622.56.

.3 **Working of Mines. Exploitation.**

.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Coal Mining. See 553.2.
.34 Metal Mining. See 553.3 and .4.
.35 Working Thick Deposits.
.36 Salt Mining. See 553.63.

622.4 **Ventilation and Lighting of Mines.**

.41 Theory. Gases met with, etc.
.42 Natural Ventilation.
.43 Furnaces. Steam Jets, etc.
.44 Fans. See 621.62.
.45 Airways. Stoppings. Regulators.
.46 Measurement of Ventilation.
.47 Lighting. Safety Lamps, etc.

.5 **Drainage.**

.51 Theory of Infiltration of Water.
.52 Natural Drainage.
.53 Cornish Pumps. See 621.64.
.54 Steam Pumps. See 621.64.
.55 Hoisting of Water.
.56 Dams and Watertight Linings. See also 622.28, Timbering.
.57 Acid Waters.

.6 **Extraction. Hoisting and Transportation.**

.61 Handling Mineral in Working Place.
.62 Underground Roads.
.63 Mine Cars. Trams, etc.
.64 Gravity Roads and Planes.
.65 Tramming and Animal Haulage. See 625.7.
.66 Mechanical Haulage.
.67 Hoisting Engines. Drums. Ropes.
.68 Cages. Skips. Buckets.
.69 Surface Transportation.
Including Mineral Roads, Wire Rope-ways, Transhipment, Loading and Unloading, etc.

.7 **Mechanical Preparation. Ore Dressing.**

.71 Theory. Preliminary Operations.
.72 Hand Dressing.
.73 Crushing. Stamping Engine.
.74 Screening.
.75 Jigging. Ore Concentrators.
.76 Slime Treatment.
.77 Magnetic Separation.
.78 Coal Washing.
.79 Dressing Works.

.8 **Dangers and Accidents.** See also 613.6, Hygiene; 331.82, Laboring classes.

.81 Explosions of Fire-Damp.
.82 Mine Fires.
.83 Crushing and Fall of Ground.
.84 Flooding of Mines.
.85 Accidents to Miners.
.86 Rescue and Relief.
.87
.88
.89

623 Military and Naval Engineering.

For Military and Naval Science, Maneuvers, Strategy and Tactics, see 355 to 359

.1 Fortifications. Field and Permanent.
.2 Siege Operations; Mines, etc.
.3 Defensive Operations.
.4 Ordnance and Projectiles. Arsenals.
.5 Gunnery.
.6 Military Roads and Bridges.
.7 Military Signals; Telegraph, Ballooning, etc.
.8 Naval Architecture. See also 699, Ship building.
.9 Armored Vessels, Torpedoes, etc.

624 Bridges and Roofs.

.1 Piers. Foundations, etc.
.2 Girders. Stresses and Strains.
.3 Trussed Bridges.
.4 Tubular Bridges.
.5 Suspension Bridges.
.6 Arched Bridges.
.7 Compound Structures.
.8 Movable Bridges.
.9 Roofs.

625 Railroad and Road Engineering.

See also 624, Bridges; and 622.2, Tunnels; 622.26, Excavations, etc.

.1 Route. Road Bed, Rails, Ties, etc.
.2 Trains. Brakes, Couplings, Wheels, etc. See 621.13, Locomotives.
.3 Inclines and Mountain Railways.
.4 Elevated and Underground Roads. Subways. See also 614.782.
.5 Cable Roads.
.6 Horse Cars. Tramways.
.7 Roads. Highways.
.8 Pavements. See also 628.47, Sanitation of towns.
.9 Ship Railways.

626 Canal Engineering.

.1 Route.
.2 Water Supply.
.3 Size and Shape.
.4 Locks.
.5 Lifts and Inclined Planes.
.6 Canal Boats. Size, Shape, etc. See 699, Shipbuilding.
.7 Towing. Power, etc.
.8 Irrigation Canals and other Irrigation Works.
.9 Ship Canals.

627 River, Harbor, and General Hydraulic Engineering

.1 Rivers. Force of Water. Discharge. Bars.
.2 Harbors. Breakwaters.
.3 Docks. Piers. Quays. Shipping Facilities.
.4 Dikes and Levees. Embankments.
.5 Other Protection and Reclamation of Land from Tides and Waves. Drainage. For Agricultural Drainage see 631.
.6 Jetties.
.7 Dredging. Dredging Machinery.
.8 Dams.
.9 Lighthouses. Buoys.

628 Sanitary Engineering. Water-works.

.01, Theories, Utility; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Polygraphy; .09, History and Description of Sanitation and General Sanitary Works, divided geographically like 930–999.

.1 Water Supply of Towns. For isolated supply see 628.7.

.11, Sources of Water Supply; Lakes, Rivers, Springs, Wells, and Pumping. .12, Pumping vs. Gravitation Systems; Pump-well; Stand-pipe; High Service; Holly System. .13, Storage and Service Reservoirs. .14, Conduits; Aqueducts; Tunnels (see 622). .15, Mains and Service Pipes; Freezing; Iron; Lead. .16, Impurities and their Removal; Filter-basins, etc. .17, Public (Sprinkling, Fire, Flushing), Manufacturing, and Domestic Use and Waste; Meters.

.2 Sewerage Works.

.21 Sewerage Systems.

1, Combined System; 2, Separate System; 3, Liernur System; 4, Shone System; 5, Berlier System; 6, Other Systems; 7, The Outfall; 8, Depth and Allignment; 9, Grade and Velocity.

628.22 Shape and Size of Sewers.
1, Storm-water Flow; 2, Ordinary Flow; 3, Circular Section; 4, Ordinary Egg-Shape; 5, Other Egg-Shapes; 6, Other Forms; 7, ; 8, Formulas for Size.

.23 Ventilation of Sewers.
1, Openings in Streets; 2, Lamp Posts; 3, Flues in Houses; 4, Pipes on Houses; 5, House Drains; 6, Chimneys and Furnaces; 7, Charcoal and Chemicals to deodorize sewerage gas; 8, Special Mechanism; 9, Special Construction.

.24 Design and Construction of Sewers.

.25 Sewer Appurtenances.
1, Junctions; 2, House Connections; 3, Manholes and Lampholes; 4, Flushing Shafts and Fixtures; 5, Catch Basins and Inlets; 6, Traps and Ventilators; 7, Valves and Penstocks; 8, Overflows and Regulators; 9, Miscellaneous.

.26 River Crossings.

.27 Intercepting and Outfall Sewers.

.28 Reservoirs and Tank Sewers.

.29 Pumping Stations.

.3 Disposal of Sewage.

.31 Physical Properties of Sewage.

.32 Deodorization and Disinfection of solids and liquids. See 628.237.

.33 Subsidence.

.34 Precipitation.
1, Precipitation Tanks; 2, Mixing Machinery; 3, Filter Presses; 4, Precipitation by Salts of Alumina; 5, By Lime; 6, By Salts of Iron; 7, By Other Methods; 8, Disposal of Sludge; 9, Miscellaneous.

.35 Filtration.

.36 Irrigation.
1, Broad Irrigation; 2, Ridge and Furrow Irrigation; 3, Flat Bed Irrigation; 4, Sub-Surface Irrigation; 5, Intermittent Downward Filtration; 6, Carriers and Appurtenances; 7, Drains and Drainage of Sewage Farms; 8, Filtration Areas; 9, Miscellaneous.

.37 Sewage Farming. Required modifications of ordinary methods.

.38 Sewage Manures.

.39 Discharge into Sea, etc.

.4 Sanitation of Towns.

.41 Middens and Privies.

.42 Pail Systems.

.43 Earth Closet Systems.

.44 Domestic Ashes and Garbage.

.45 Public Urinals and Latrines.

.46 Street Cleaning and Sprinkling.

.47 Pavements and Subways.

.48 Trees in Streets and Squares.

.49 Manufacture of Fertilizers from Town Wastes.

.5 Industrial Sanitation.

.51 Factories and Trades.
1, Prevention of Dust and Fumes; 2, Protection of Throat and Eyes; 3, Protection against Infection; 9, Special Trades.

.52 Effluvium Nuisances.
1, Situation of Works; 2, Use of High Chimneys; 3, Condensation in Water; 4, Combustion in Furnaces; 9, Special Trades.

.53 Smoke Nuisance.
8, From Steam Generators; 9, From Special Industries.

.54 Disposal of Solid and Liquid Wastes.
1, Discharge into Streams; 2, Absorbing Wells and Burial; 3, Clarification by Subsidence; 4, Chemical Treatment; 5, Filtration; 6, Purification by the Soil; 9, Special Methods and Special Trades.

.6 House Drainage.

.7 Rural Water Supply. Villages and Country houses.

.8 Ventilation and Heating. See 697, 644, 628.23, 622.4, 621.19.
This head is chiefly for Ventilation. Most matter on Heating goes in 697.

.9 Lighting. See 621.32, 537.83, 644, 665.

629 Other Branches of Engineering.

630 Agriculture.

To be subdivided more closely and printed later.

631 Soil. Fertilizers. Drainage.

632 Pests. Hindrances. Blights. Insects.

633 Grains. Grasses. Fibres. Tea. Tobacco, etc

634 Fruits. Orchards. Vineyards.
.9, Forestry. See also 715, Landscape gardening.

635 Kitchen garden. See 716 for Flower gardens.

636 Domestic animals. See also 619, Veterinary medicine; 599.7, Zoölogy.

.1 Horses. Asses. Mules. See 682.1, Horseshoeing.

.2 Cattle.

.3 Sheep. Goats.

.4 Swine.

.5 Poultry.

.6 Birds.

.7 Dogs.

.8 Cats.

.9 Other. Camels, etc.

637 Dairy. Milk. Butter. Cheese.

638 Bees. Silkworms.

639 Fishing. Trapping.

640 Domestic economy. Hotels. Flats.

See also 334.4, Coöperative housekeeping; 331.83, Laboring classes.

641 Cookery. Gastronomy.

642 Confectionery. Ices.

643 Food. Dining. Carving.
See also 613.2–.3, Hygiene; 663, Beverages; 394.1, Customs.

644 Fuel. Lights. See also 697, 665, 621.32, 621.19.

645 Furniture. Carpets. Upholstery. Plate. Shelter.

646 Clothing. Toilet. Cosmetics.
See also 613.4, Hygiene; 391, Costume and care of person.

647 Servants. Training. Duties. Wages.

648 Laundry.

649 Nursery. Children. Sick-room.

650 Communication. Commerce.

651 Office equipment and methods.

652 Writing. Materials, typewriters, cipher.

653 Abbreviations. Shorthand.

.01 Theories. Available material. Shading. Position. Detached vowels.

.02 Practicability for general use. Teaching in public schools.
For methods see 653.07.

.03 Speed. See also 653.046, Verbatim reporting.

.04 Applications.
.041, Personal notes and records; .042, Correspondence; .043, Amanuensis work; .044, Newspaper work; .045, Shorthand job offices; .046, Official reporting, court and legislative; .047,

.05 Periodicals. If strictly limited to one system, class with that system.

.06 Societies. " " " "

.07 Education. Shorthand schools. Teaching, privately or in classes.

.08

.09 History. Divided by countries like 930–999.

.1 Abbreviations. Omissions of silent letters, vowels, etc.
Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4, Phonetic spelling; 421.8, Abbreviations.

.2 Abbreviation systems.
Brief longhand. Fonoscribing, etc. For telegraphic codes, see 652.
Covers only systems of quick writing with common characters.

.3 Stenographies.
Includes both discussions and systems with arbitrary signs and new characters.
.31, Before 1837; .32, Gurney; .33, Gabelsberger; .34, Stolze (Dettmann); .35, Taylor (Baker; Harding; Odell); .36, Cross; .37, Scovil; 8, Duployé (Pernin, Sloan).

.4 Phonetic shorthand. Phonographies.
Limited to phonetic stenography, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants.
.41, Before Pitman (1837); .42, Bell; .43, Jones; .44, Williams; .45,

.5 Pitman old vowel scale systems.
.51, Benn Pitman; .52, Graham; .53, Scott-Brown; .54, Marsh; .55, Thornton; .56, Haven; .57, Allen; .58,

.6 Pitman new vowel scale systems.
.61, Izaac Pitman; .62, Munson; .63, Longley; .64, Burnz; .65,

.7 Connected vowel systems.
.71, Lindsley's takigrafy; .72, Everett; .73, Barrows; .74, Bishop.

.8

.9 Foreign systems. Divided by languages like 400.
The heads above are for English systems or (as in .33) foreign systems adapted to and used for English. Other systems are grouped here by languages, but history of shorthand in special countries is in 653.09.

654 Telegraph. Cables. Signals. For codes see 652.

.1 Telegraphic instruments.

.2 Duplex, quadruplex, multiplex telegraphs, etc.

.3 Printing, perforating, dial telegraphs, etc.

.4 Telegraphic construction; poles, wires, conduits, etc.

.5 Cables. Submarine.

.6 Telephones.

.7 Alarms; burglar, fire. Annunciators, bells.

.8 Speaking tubes. Pneumatic tubes.

.9 Signals. See also 534.83, Navigation signals; 623.7, Military signals.

655 Printing. Publishing. Copyright.

.1 History of printing.

.11 Origin. Invention.

.111 Claims of Gutenberg, Mainz.

.112 Claims of Coster, Haarlem.

.12 Celebrations, anniversaries.
1, 1640; 2, 1740; 3, 1823; 4, 1840.

.13–.19 Printing in special countries. Divided like 930–999.

.2 Type and Type Setting.

.21 Type founding. Tools of the art.

.22 Electro and stereotyping, etc. Patent blocks.
For Photo-electrotyping, see 777.

.23 Patent types. Logotypes, etc.

.24 Faces; sizes; styles. Specimen books.

.25 Type setting. Composition. Proof reading.

.26 Artistic composition. Taste. Display. Job work.

.27 Imposition. Locking up, etc.

.28 Type setting and distributing machines. Linotype.

.3 Practical printing. For Calico printing, see 667.2.

.31 Printing presses.

.32 Press work. Making ready. Colors. Cuts.

.33 Drying. Hydraulic pressing, etc.

.34

.35 Stamps, stencils, etc.

.36 Machines. Paging, numbering, addressing, etc.
See also 654.3, Printing telegraphs; 651, Type writers.

.37 Nature printing. From plants, etc.

.38 Printing for blind. See also 371.91, Education of blind.

.4 History of publishing and bookselling.
Divided by countries like 930–999.

.5 Publishing and bookselling.

.51 Selection of mss.
For Freedom of press *vs.* censorship, see 323; Morals of press, 179.1.

.52 Relations to authors. Copyright payments. Prices of mss. bought.

.53 Size, paper, type, illustrations, binding.

.54 Cost of manufacture. Retail prices and discounts to dealers.

.55 Advertising, press copies and notices. See 659, Advertising.

.56 Retail bookselling. Prices and discounts to buyers.

.57 Subscription book publishing. Canvassing.

.58 Publishing societies.

.59 Publishing by governments, institutions, etc.

.6 Copyright. Literary property.

.61 Perpetual or common law right. Including ethics of copyright.

.62 Copyright in other matter than books. Music, mss., lectures, trademarks.

.63 International copyright. See also 341.5, International private law.

.64–.69 Copyright in special countries. Divided like 940–999.

656 Transportation. Railroading, etc. .5 Shipping

657 Book-keeping. Accounts.

658 Business manuals. Methods. Tables.

659 Advertising and other topics.

660 Chemical Technology.

.1, ; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals, .6, Societies; .7, Study and Teaching; .8, ; .9, History of Chemical Technology.

661 Chemicals.

.1 Chemical Elements. Divided like 546.
.2 Acids. Sulphuric, Nitric, etc.
.3 Alkalies. Potash, Soda, Ammonia.
.4 Salts. For Common Salt see 664.4.
.5 Ammonia Salts.
.6 Sulphates and Nitrates.
.7 Cyanides.
.8

662 Pyrotechnics, Explosives, Matches, etc.

.1 Pyrotechnics.
.2 Explosives. See Blasting 622.23; Ordnance 623.4.
.3 Gunpowder.
.4 Fuses. Percussion Caps.
.5 Matches.
.6 Fuel. Coal, peat, natural gas, etc.
.7 Charcoal. Coke. See also 644, Domestic economy; 669.8, Metallurgy.
.8 Artificial fuel. See also 644, Domestic economy; 669.8, Metallurgy.
.9

663 Beverages. See also 178, Temperance; 614.35, Adulterations.

.1 Fermented.
.2 Wine.
.3 Brewed.
.4 Beer.
.5 Distilled.
.6 Artificial mineral waters. Soda water.
.7
.8 Mixing drinks. Bar-keepers' manuals.
.9 Chocolate. Cocoa. Commercial mixing of teas, coffees, etc.

664 Foods.

For Adulterations see 614.31, Public health. See also 641 and 643, Domestic economy.

.1 Sugar, molasses, glucose, etc.
.2 Starch, tapioca, sago, etc.
.3 Artificial butter. Oleomargarine. Lard, compound lard.
For butter, milk, and cheese see 637, Dairy.
.4 Salt.
.5 Spices. Condiments.
.6 Yeast. Baking powder.
For Bread see 641, Cookery.
.7
.8 Preservation of fruits and vegetables.
.9 " " meat and fish.

665 Oils. Gases. Candles. Lamps.

.1 Candles. Torches.
.2 Animal oils and fats. See also 664.3, Foods.
.3 Vegetable oils and fats.
.4 Mineral oils. Paraffine. Ozocerite. Asphaltum.
.5 Petroleum. Kerosene.
.6 Lamps. See also 644, Domestic economy.
.7 Illuminating gases. Calcium light.
.8 Other gases.
.9

666 Ceramics. Glass, etc.

.1 Glass. See also 748, Stained glass.
.2 Enamel.
.3 Ceramics. See also 738, Pottery, porcelain.
.4 Clay. See also 553.61, Economic geology.
.5 Porcelain.
.6 Stoneware. Earthenware. Pottery.
.7 Bricks. Tiles. See also 691.4, Building materials; 695.3, Roofing.
.8 Artificial stone. See also 691.3, Building materials.
.9 Cements. Limes. Mortars. See also 691.5, Building materials.

667 Bleaching, dyeing, etc.

.1 Bleaching.
.2 Dyeing. Artificial colors. Silk and wool.
.3 Cotton dyeing and calico printing.
.4 Inks. Writing inks. Indelible inks.
.5 Printing inks.
.6 Paints and pigments. See also 698.1, House painting; 751, Fine arts.
.7 Varnishes. Polish. Lacquer. See also 698.3, Varnishing.
.8 Japan. Blacking.
.9

668 Other organic chemical industries.

.1 Soap.
.2 Glycerine.
.3 Glue.
.4 Gums and resins.
.5 Essences, perfumery, essential oils and ethers, etc.
See also 646, Toilet.
.6 Fertilizers. See also 631, Agriculture.
.7 Distillation. Coal tar, etc.

669 Metallurgy and assaying.

History of metals goes here, not in 553, 622, nor 671.

.1 Iron and steel.
.2 Gold and silver.
.3 Copper.
.4 Lead.
.5 Zinc.
.6 Tin.
.7 Mercury and other metals.
.8 Fuels and furnaces. Slags.
.9 Assaying.

670 Manufactures.

Specific topics go where of most interest. These heads are for the *general* subject of metal, wood, etc., manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether groupt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general head is better; e. g., bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy.

671 Articles made of Metals.

672 Of Iron and Steel; Stoves, Cutlery, etc.

673 Of Brass and Bronze; Bells, etc.

674 Lumber and Articles made of Wood.

675 Leather " " " " Leather.

676 Paper " " " " Paper.

677 Cotton, Wool, Silk, Linen, etc.

678 Rubber and Articles made of Rubber.

679 Celluloid and other.

680 Mechanic Trades. Amateur Manuals.

681 Watch and Instrument-making.

682 Blacksmithing.

.1 **Horseshoeing.**

683 Lock and Gun-making.

684 Carriage and Cabinet-making.

685 Saddlery and Shoe-making. Trunks.

686 Bookbinding.

687 Clothes-making. Hats.

688

689 Other Trades.

690 Building.

For Architectural Construction, see 721.

.1, Theories of Construction; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies, Exhibitions; .7, Education, Study, Training, Apprenticeship, Tools and their Use (for the use of special tools see special trade); .8, Collections, Patents, Inventions; .9, History of Building Construction.

691 Materials. Processes. Preservatives.

See also 620.1, Strength of Materials.

.1 **Wood. Creosoting, etc.**
.2 **Natural Stone. Parafining, etc.**
.3 **Artificial Stone. Concrete.**
.4 **Bricks. Tiles. Other Ceramic Productions.**
.5 **Lime. Cement. Plaster.**
.6 **Glass.**
.7 **Iron. Steel. Anti-rust Processes.**
.8 **Other Metals.**
.9 **Other Materials.**

692 Plans. Specifications, etc.

.1 **General Drawings.**
.2 **Detail Drawings.**
.3 **Specifications.**
.4 **Contracts. Agreements. Bids. Advertisements.**
.5 **Estimates. Quantities. Cost.**
.6 **Superintendence.**
.7 **Supervision of Accounts.**
.8 **Professional Services. Fees. Commissions.**
.9 **Building Laws. Liabilities of Architects, Owners, and Contractors.**

693 Masonry. Plastering. Fire Proofing.

.1 **Stone Construction.**
.11 Bonds of Stone Work.
.12 Cutting and Dressing of Stone. See 515.8, Stereotomy; 736, Stone Carving.
.2 **Brick Construction.**
.21 Bonds of Brick Work.
.22 Adobe or Sun-dried Brick, etc.
.3 **Terra Cotta Construction.**
.4 **Hollow Tile and Porous Terra Construction.**
.5 **Concrete and Beton Construction.**
.6 **Plastering.**
.61 External Plastering and Stucco.
.62 Internal Plastering.
.63 Ornamental Plaster-work.
.64 Scagliola.
.65 Wooden Lath.
.66 Metal Lath. (Wire, etc.)
.67 Mineral Wool Linings, etc.
.7
.8 **Fire Proofing.**
.9

694 Carpentry. Joinery. Stair-building.
.1 Wood Construction, General.
.2 Joints of Wood-work. Framing.
.3 Strengthened Beams.
.4 Posts. Columns. See 721.31.
.5 Panelled and Latticed Construction.
.6 Joinery, General. For Finishing, varnish, polish, etc., see 698.3.
.7 Ornamental Joinery. Cabinet-work.
.8 Stair-building. See 515.83, Stereotomy.
.9 Other branches. See 721.87–89.

695 Roofing. Slating. Tiling. See 721.4, Roof Constructions.
.1 Shingle.
.2 Slate.
.3 Tile.
.4 Metal. Tin. Copper. Lead. Zinc.
.5 Iron.
.6 Asphalt. Tar. Concrete. (Melted.)
.7 Felt. Asbestos. Paper. (In rolls.)
.8 Textile. Duck. Canvas.
.9 Thatch and other Coverings.

696 Plumbing. Gas and Steam-fitting, etc.
.1 Plumbing. See 628, Principles of Sanitation.
.2 Gas-fitting.
.3 Steam-fitting.
.4 Rivets and Riveted Joints.
.5 Screws and Screw Joints.
.6 Rust or Calked Joints.
.7 Anchors. Band Irons.
.8 Other branches.
.9 Plumbing Laws. See also 614.

697 Heating and Ventilation. See San. Eng., 628.8; Domestic Econ., 644.
.1 Fireplaces.
.2 Stoves.
.3 Furnaces.
.4 Hot Water, high and low pressure.
.5 Steam, high and low pressure. For Boilers, see 621.18.
.6 Gas. Coal Gas, Water Gas, Natural Gas.
.7 Electric and Other Methods.
.8 Smoke Flues and Chimneys.
.9 Ventilation. Air Ducts. Conduits. Fans.

698 Painting. Glazing. Paper-hanging.
.1 Painting. Oil.
.2 Distemper and Fresco.
.3 Varnishing. Polishing.
.4 Other Modes of Protection.
.5 Glazing. See 748, Stained Glass.
.6 Paper-hanging.
.7 Textile Hangings. Tapestry.
.8 Relief Work. Lincrusta. Stamped Leather, etc.
.9 Other branches.

699 Car and Ship Building.

Fine Arts.

700 Fine Arts.

701 Philosophy. Theories. Utility. Æsthetics.
702 Compends. Outlines.
703 Dictionaries. Cyclopedias.
704 Essays. Lectures. Addresses.
705 Periodicals. Magazines. Reviews.
706 Societies. Transactions. Reports, etc.
707 Education. Study and Teaching of Art.
708 Art Galleries and Museums.
.1 American. Corcoran, Metropolitan, Boston.
.2 English. National, Hampton Court, Windsor.
.3 German. Dresden, Munich, Berlin, Vienna.
.4 French. Louvre, Luxembourg.
.5 Italian. Vatican, Sistine, Pitti, Medici, Borbonico.
.6 Spanish. Madrid, Seville.
.7 Russian. St. Petersburg, Hermitage.
.8 Scandinavian. Copenhagen.
.9 Other Countries.
709 History of Art in General. Divided like 930–999.

710 Landscape Gardening.

711 Public Parks.
712 Private Grounds. Lawns.
713 Walks. Drives.
714 Water. Fountains. Lakes.
715 Trees. Hedges. Shrubs.
See also 634.9, Forestry; 582, Botany.
716 Plants. Flowers.
.1, Plants; .2, Flowers; .3, Conservatories; .4, Window gardens; .5, Ferneries.
717 Arbors. Seats. Outlooks.
718 Monuments. Mausoleums.
719 Cemeteries. See also 393.1, Earth burial; 614.61, Public health.

INTENTIONAL SECOND EXPOSURE

694 Carpentry. Joinery. Stair-building.
- .1 Wood Construction, General.
- .2 Joints of Wood-work. Framing.
- .3 Strengthened Beams.
- .4 Posts. Columns. See 721.31.
- .5 Panelled and Latticed Construction.
- .6 Joinery, General. For Finishing, varnish, polish, etc., see 698.3.
- .7 Ornamental Joinery. Cabinet-work.
- .8 Stair-building. See 515.83, Stereotomy.
- .9 Other branches. See 721.87–89.

695 Roofing. Slating. Tiling. See 721.4, Roof Constructions.
- .1 Shingle.
- .2 Slate.
- .3 Tile.
- .4 Metal. Tin. Copper. Lead. Zinc.
- .5 Iron.
- .6 Asphalt. Tar. Concrete. (Melted.)
- .7 Felt. Asbestos. Paper. (In rolls.)
- .8 Textile. Duck. Canvas.
- .9 Thatch and other Coverings.

696 Plumbing. Gas and Steam-fitting, etc.
- .1 Plumbing. See 628, Principles of Sanitation.
- .2 Gas-fitting.
- .3 Steam-fitting.
- .4 Rivets and Riveted Joints.
- .5 Screws and Screw Joints.
- .6 Rust or Calked Joints.
- .7 Anchors. Band Irons.
- .8 Other branches.
- .9 Plumbing Laws. See also 614.

697 Heating and Ventilation. See San. Eng., 628.8; Domestic Econ., 644.
- .1 Fireplaces.
- .2 Stoves.
- .3 Furnaces.
- .4 Hot Water, high and low pressure.
- .5 Steam, high and low pressure. For Boilers, see 621.18.
- .6 Gas. Coal Gas, Water Gas, Natural Gas.
- .7 Electric and Other Methods.
- .8 Smoke Flues and Chimneys.
- .9 Ventilation. Air Ducts. Conduits. Fans.

698 Painting. Glazing. Paper-hanging.
- .1 Painting. Oil.
- .2 Distemper and Fresco.
- .3 Varnishing. Polishing.
- .4 Other Modes of Protection.
- .5 Glazing. See 748, Stained Glass.
- .6 Paper-hanging.
- .7 Textile Hangings. Tapestry.
- .8 Relief Work. Lincrusta. Stamped Leather, etc.
- .9 Other branches.

699 Car and Ship Building.

Fine Arts.

700 Fine Arts.

701 Philosophy. Theories. Utility. Æsthetics.

702 Compends. Outlines.

703 Dictionaries. Cyclopedias.

704 Essays. Lectures. Addresses.

705 Periodicals. Magazines. Reviews.

706 Societies. Transactions. Reports, etc.

707 Education. Study and Teaching of Art.

708 Art Galleries and Museums.
- .1 American. Corcoran, Metropolitan, Boston.
- .2 English. National, Hampton Court, Windsor.
- .3 German. Dresden, Munich, Berlin, Vienna.
- .4 French. Louvre, Luxembourg.
- .5 Italian. Vatican, Sistine, Pitti, Medici, Borbonico.
- .6 Spanish. Madrid, Seville.
- .7 Russian. St. Petersburg, Hermitage.
- .8 Scandinavian. Copenhagen.
- .9 Other Countries.

709 History of Art in General. Divided like 930–999.

710 Landscape Gardening.

711 Public Parks.

712 Private Grounds. Lawns.

713 Walks. Drives.

714 Water. Fountains. Lakes.

715 Trees. Hedges. Shrubs.
See also 634.9, Forestry; 582, Botany.

716 Plants. Flowers.
.1, Plants; .2, Flowers; .3, Conservatories; .4, Window gardens; .5, Ferneries.

717 Arbors. Seats. Outlooks.

718 Monuments. Mausoleums.

719 Cemeteries. See also 393.1, Earth burial; 614.61, Public health.

720 Architecture.

.1, Theories, Esthetics, Architectonics; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies; .7, Education, Study, Training, Schools of Architecture; .8, Polygraphy, Collections; .9, General History of Architecture, divided geographically like 940–999.

721 Architectural Construction.

.1 Foundations. See Bridge Engineering, 624.1, Foundations.

.11 Dimension Stone.
.12 Rubble Stone.
.13 Concrete.
.14 Sand or Gravel.
.15 Timber Gratings.
.16 Piles. Sand Piles.
.17 Sunken Wells.
.18 Sunken Tubes.
.19 Other Foundations.

.2 Walls.

.21 Wooden and Half-timbered.
.22 Stone.
.23 Artificial Stone, Concrete, Pisé, etc.
.24 Brick.
.25 Bases. Water Tables. Belt Courses.
.26 Arcades. Colonnades.
.27 Cornices.
.28 Gables and Pediments. See also 721.58, Gable Roofs.
.29 Other Walls.

.3 Piers. Columns.

.31 Wooden. See also Carpentry, 694.4.
.32 Stone.
.33 Concrete. Artificial Stone.
.34 Brick. Terra Cotta.
.35 Iron. Steel.
.36 Fire-proof. Protected.
.37
.38
.39

.4 Arched Constructions.

See 624.6, Arched Bridges; and 729.33 and 729.37, elementary forms.

.41 Arches, Circular.
.42 Arches, other forms.
.43 Vaults, Cylindrical.
.44 Vaults, Groined.
.45 Vaults, other forms.
.46 Domes, Circular.
.47 Domes, other forms.
.48
.49

721.5 Roofs. See 695, Roof Coverings; 624.9, Engineering, Roofs.

.51 Wooden.
.52 Masonry.
.53 Glass.
.54 Metallic.
.55 Windows. Openings in Roofs.
.56 Roof Decoration. Cresting, Repoussé work, Colored Tiles, etc. See 695.3.
.57 Spires and Domes.
.58 Gables. See also 721.28, Gable Walls.
.59 Other forms of Roofs.

.6 Floors and Flooring.

.61 Wooden. Construction and Coverings.
.62 Stone. " "
.63 Brick and Hollow Tile. " "
.64 Metallic. Compound. " "
.65 Composite. " "
.66 Parquetry. Coverings only.
.67 Mosaics. "
.68 Tiles. See 695.3, Roofing Tile.
.69 Other Coverings.

.7 Ceilings.

.71 Wooden.
.72 Stone.
.73 Brick or Tiles with Iron.
.74 Metallic.
.75 Concrete. Plaster.
.76
.77
.78
.79

For vaulted ceilings, see 721.4 and 729.34.

.8 Doors. Gates. Grilles. Windows.

.81 Doors, Wooden.
.82 Doors, Metallic.
.83 Doors, Sash, Lattice, Screen, etc.
.84 Windows, External.
.85 Windows, Internal.
.86 Enclosures of Doors and Windows.
Architraves. Pilasters. Jambs. Pediments. Lintels, etc.
.87 Shutters. Blinds. Screens. Grilles.
.88 Fastenings. Locks.
.89 Other details.

.9 Iron and Composite Structures.

For Strength of Material, see Engineering, 620.1.

.91 Cast Iron.
.92 Wrought Iron.
.93 Steel.
.94 Composite.
.95 Iron and Wood.
.96 Iron and Stone.
.97 Iron and Brick, Tile, Terra Cotta.
.98 Iron and Glass.
.99 Wood and Glass.

722 Ancient and Oriental Architecture. (Pagan.)

See also 571.8, Prehistoric Dwellings.

- .1 **Chinese. Japanese.**
- .2 **Egyptian.**
- .3 **Phenician. Tyrian. Jewish. Carthaginian. Cypriote.**
- .4 **Indian (Asiatic).**
  - Hindoo, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian.
- .5 **Chaldean. Assyrian. Babylonian. Ancient Persian. Sassanian.**
- .6 **Pelasgian. Etruscan.**
- .7 **Roman.** See 729.32 for Roman Orders.
- .8 **Grecian.** See 729.32 for Greek Orders.
- .9 **Other. Aztec. Peruvian. Maya. Yucatan, etc.**

723 Mediæval. (Christian. Mohammedan.)

- .1 **Early Christian.**
- .2 **Byzantine. Armenian. Russian.**
- .3 **Mohammedan. Saracenic, Moorish, Persian, Turkish, Indian.** For Ancient Indian see 722.4.
- .4 **Romanesque.**
  - .41 Scotch. Irish.
  - .42 English. Saxon. Norman.
  - .43 German. Austrian.
  - .44 French. Provençal. Norman. Angevin.
  - .45 Italian. Sicilian Norman.
  - .46 Spanish. Portuguese.
  - .47
  - .48 Danish. Swedish. Norwegian.
  - .49 Minor Countries.
- .5 **Gothic or Pointed.** Divided like 723.4.

724 Modern.

All the sub-sections of 724 are subdivided geographically like 940–999.

- .1 **Renaissance.**
- .2 **Grecian Revival.**
- .3 **Gothic Revival.**
- .4 **Victorian Gothic. Tudor.**
- .5 **Queen Anne.**
- .6 **Néo-Grec.**
- .7 **Swiss. Timber.**
- .8 **Romanesque Revival.**
- .9 **Other Styles.**

725 Public Buildings.

- .1 **Administrative. Governmental.**
  - .11 Capitols. Houses of Parliament.
  - .12 Ministries of War, State, etc.
  - .13 City and Town Halls. Bureaus. Public Offices.
  - .14 Custom Houses. Bonded Warehouses. Excise Offices.
  - .15 Court Houses. Record Offices.
  - .16 Post Offices, General and Special.
  - .17 Official Residences. Palaces of Rulers.
  - .18 Barracks. Armories. Police Stations.
  - .19 Engine Houses. Fire Alarm Stations.
- .2 **Business and Commercial.**
  - .21 Stores, Wholesale and Retail.
  - .22 Mixed Store, Office, and Apartment Buildings.
  - .23 Office Buildings. Telegraph. Insurance.
  - .24 Banks. Safe Deposit. Savings.
  - .25 Exchanges. Boards of Trade.
  - .26 Markets.
  - .27 Cattle Markets. Stock Yards.
  - .28 Abattoirs.
  - .29 Other Business Buildings.
- .3 **Transportation and Storage.**
  - .31 Railway Passenger Stations.
    - .311 Small (country) Stations.
    - .312 Large (city) "
    - .313 Union "
    - .314 Stations on two levels.
    - .315
    - .316
    - .317 Street-car Stations.
    - .318 Elevated R. R. Stations.
    - .319 Underground R. R. Stations.
  - .32 Railway Freight Houses.
  - .33 Railway Shops, Round Houses, Car Houses, Tanks, Stores.
  - .34 Dock Buildings. Wharf Boats and Houses.
  - .35 Warehouses. Cold Storage. Safe Deposit Storage.
  - .36 Elevators, Grain.
  - .37
  - .38
  - .39 Other.
- .4 **Manufactories.**
  - .41 Textile Factories or Mills. Wool, Cotton, Silk.
  - .42 Breweries. Malteries. Distilleries.
  - .43 Foundries. Machine Shops. Iron and Steel Works.
  - .44 Wood-working Mills. Furniture Factories.
  - .45 Carriage and Car Factories.
  - .46 Paper Mills.
  - .47 Mills for Flour, Meal, Feed, etc.
  - .48 Pottery, Glass, Terracotta, Brick Works.
  - .49 Other Manufactories.

725.5 **Hospitals and Asylums.** See also 725.6. Reformatories.
- .51 Sick and Wounded. Eye and Ear. Incurables. Lying-in.
- .52 Insane.
- .53 Idiotic. Feeble-minded.
- .54 Blind. Deaf and Dumb.
- .55 Paupers. Almshouses.
- .56 Aged.
- .57 Children. Orphans.
- .58 Foundling.
- .59 Soldiers' Homes.

.6 **Prisons and Reformatories.**
- .61 State Prisons. Penitentiaries.
- .62 Jails. Cell Houses.
- .63 Reformatories for Adults. Houses of Correction.
- .64 Reform Schools.
- .65 Washingtonian Homes. Inebriate Asylums.
- .66

.7 **Refreshment. Baths. Parks.**
- .71 Cafés. Restaurants.
- .72 Saloons.
- .73 Baths; Warm, Medicated, Turkish, Russian.
- .74 Swimming Baths.
- .75 Buildings for Watering Places, Spas, etc.
- .76 Buildings for Parks.

.8 **Recreation.**
- .81 Music Halls.
- .82 Theatres. Opera Houses.
- .83 Halls for Lectures, Readings, etc.
- .84 Bowling Alleys. Billiard Saloons.
- .85 Gymnasiums. Turn Halls.
- .86 Skating Rinks. Bicycle Rinks.
- .87 Boat Houses.
- .88 Riding Halls and Schools.
- .89 Shooting Galleries.

.9 **Other Public Buildings.**
- .91 Exhibition Halls.
- .92 Temporary Halls. Tabernacles. Wigwams.
- .93 Workingmen's Clubs and Institutes.
- .94

726 Ecclesiastical and Religious.

- .1 **Temples.**
- .2 **Mosques.**
- .3 **Synagogues.**
- .4 **Chapels. Sunday-school Buildings.**
- .5 **Churches.**
- .6 **Cathedrals.**
- .7 **Monasteries. Convents. Abbeys.**
- .8 **Mortuary. Cemetery Chapels. Receiving Vaults. Tombs**
- .9 **Other. Y. M. C. A., etc.**

727 Educational and Scientific.

.1 **Schools.**
Study and Recitation Rooms. Not including dormitory or boarding.
- .2 **Academies. Seminaries. Boarding Schools.**
- .3 **Colleges. Universities.**
- .4 **Professional and Technical Schools. Law, Theology, etc.**
- .5 **Laboratories; Physical, Chemical** see 542.1, **Biological, etc. Zoölogical and Botanic Gardens** see also 590.7 and 580.7.
- .6 **Museums. Herbariums** see 580.7.
- .7 **Art Galleries. Studios.**
- .8 **Libraries.** See 022, Library Buildings.
- .9 **Other. Learned Societies, etc.**

728 Residences.

.1 **Tenement Houses.**
- .11 City Homes of Poor.
- .12 Country "
- .13 Cités Ouvrières.

.2 **Apartment Houses. Flats. Family Hotels.**

.3 **City Houses. Mansions. Palaces.**
- .31 Between party-walls. Stone.
- .32 " " Brick.
- .33 " " Partly wood.
- .34 Semi-detached, including end houses in city blocks. Stone.
- .35 " " " Brick.
- .36 " " " Partly wood.
- .37 Detached. Stone.
- .38 " Brick.
- .39 " Partly wood.

.4 **Club Houses. Buildings for Secret Societies.**

.5 **Hotels. Inns.**
- .51 City Hotels.
- .52 Summer Resorts.
- .53 Country Inns.

.6 **Village and Country Homes.**
- .61 Village Dwellings. On small lots.
- .62 Stone.
- .63 Brick.
- .64 Concrete or stucco.
- .65 Part masonry, part wood.
- .66 All wood.
- .67 Farm Houses.
- .68 Laborers' Cottages.

.7 **Seaside and Mountain Cottages. Chalets.**

.8 **Country Seats.**
- .81 Castles.
- .82 Chateaux.
- .83 Manor Houses.
- .84 Villas.

728.9 **Out-Buildings.**

.91 Porter's Lodges.
.92 Servants' Quarters.
.93 Kitchens and Laundries.
.94 Stables. Carriage Houses.
.95 Barns. Granaries.
.96 Dairies.
.97 Ice Houses.
.98 Conservatories. Green Houses. Graperies.
.99 Other.

729 Architectural Design and Decoration.

.1 **The Elevation.**

.11 Composition.
.12 Distribution.
.13 Proportion.
.14 Light and Shade.
.15 Perspective effect.
.16
.17
.18
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For projection of shadows and graphics of light and shadow see 515.63 and 515.7.

.2 **The Plan.**

.21 Elements required.
.22 Distribution.
.23 Proportion.
.24
.25
.26
.27
.28
.29

.3 **Elementary Forms.** For construction of these forms see 721.

.31 Walls. Mouldings. Cornices.
.32 Piers, Columns, Pilasters, Pedestals and the Orders. Colonnades.
.33 Arches and Arcades.
.34 Vaults and Domes.
.35 Roofs. Spires. Dormers.
.36 Towers.
.37 Gables and Pediments.
.38 Doors and Windows. Bays. Oriels.
.39 Stairs and Balustrades. See also 515.83, Stereotomy; 694.8, Building.

.4 **Painted Decoration.**

See also 729.7. Mosaic.

.41 Vegetable forms.
.42 Animal forms.
.43 Grotesque forms.
.44 Conventional and Geometric Forms.
.45 Painted Moldings.
.46 Painted Friezes and Panels.
.47 Painted Columns and Pilasters.
.48 Painted Ceilings and Vaults.
.49 Painted Walls.

729.5 **Decoration in Relief.** For Bas Relief and Figure Carving see 730.

.51 Vegetable forms.
.52 Animal forms.
.53 Grotesque forms.
.54 Conventional and Geometric forms.
.55 Carved Moldings.
.56 Carved Friezes and Panels.
.57 Carved Columns and Pilasters.
.58 Carved Ceilings and Vaults.
.59 Other Carved Ornament.

.6 **Incrustation and Veneering.**

.61 Of External Walls (in brick, stone, or marble, tiles, etc.).
.62 Of Interiors.
.63 Intarsia and Inlay.
.64 Niello-work.
.65 Enamel Decoration.
.66
.67
.68
.69

.7 **Mosaic.**

.71 Mosaic Ceilings.
.72 Mosaic Walls.
.73 Mosaic Floors.
.74 Other Mosaic designs.
.75
.76
.77
.78
.79

.8 **Stained Glass Design.** For technical processes see 666; for History see 748.

.81 Geometric Windows.
.82 Medallion Windows.
.83 Canopy Windows.
.84 Figure Windows.
.85 Mosaic Windows.
.86 Other kinds of stained glass.
.87
.88
.89

.9 **Architectural Accessories and Fixed Furniture.**

.91 Altars.
.92 Pulpits. Tribunes.
.93 Dais. Thrones.
.94 Buffets.
.95 Mantels. Overmantels.
.96 Screens. Rood Screen. Reredos.
.97
.98
.99

730 Sculpture.

731 Materials and Methods.

732 Ancient.

733 Greek and Roman.

734 Medieval.

735 Modern.

736 Carving. Seals. Dies. Gems. Cameos.

737 Numismatics. Coins. Medals.

738 Pottery. Porcelain.

739 Bronzes. Brasses. Bric-a-brac.

740 Drawing. Decoration. Design.

741 Free-hand. Crayon. Sketching from Nature. Caricatures. Cartoons.

Collections on any subject go with that subject with reference from 741.

742 Perspective. See also 515.6.

743 Art Anatomy. Life School. Artists.

744 Mathematical and Scientific Drawing. See 515.

745 Ornamental Design. Woven Fabrics. Carpets. Wall Paper, etc.

746 Art Needlework. Fancy Work.

747 Interior Decoration. Distemper. Fresco. Polychrome.

748 Stained and Iridescent Glass. For Leading, see 698.5.

749 Artistic Furniture. Fireplaces. Frames, etc.

750 Painting.

751 Materials and Methods.

752 Color. See 535.6, Optics.

753 Epic. Mythic. Idealistic. See 759.3, German School.

754 Genre. Still Life. See 759.4, French; and 759.9, Belgian.

755 Religious. Ecclesiastic. See 759.5, Italian; and 759.6, Spanish.

756 Historical. Battle Scenes.

757 Portrait.

758 Landscape and Marine. Animals. Flowers.

759 Various Schools of Painting.

1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other Schools.

760 Engraving.

761 Wood.

762 Copper and Steel.

763 Lithography.

764 Chromolithography.

765 Line and Stipple.

766 Mezzotint and Aquatint.

767 Etching. Dry Point.

768 Bank Note and Machine.

769 Collections of Engravings.

770 Photography.

771 Materials. Photographic Chemistry.

772 Silver Processes. Daguerreotype. Talbotype. Collodion Process. Ambrotype, etc. Dry-Plate Processes.

773 Gelatine and Pigment Processes. Woodburytype. Carbon Process. Lambertype. Autotype, etc.

774 Gelatine and Printer's Ink Processes. Albertype. Heliotype. Artotype, etc.

775 Photo-lithography, etc.

776 Photo-zincography, etc.

777 Photo-engraving and Photo-electrotyping.

778 Special Applications. See 522.63, Astronomy. See 578, Microscopy.

779 Collections of Photographs.

780 Music.

.1, Philosophy and Æsthetics of Music; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Conservatories; .8, Polygraphy, Libraries; .9, History, divided by countries, like 930–999. All heads include both the music itself and everything about it: Score, Libretto, History, Criticism, etc.

781 Theory of Music.

.1 Mathematical and Physical.

.2 Elementary and General.

.3 Harmony. Thoroughbass.

.4 Counterpoint.

.5 Musical Form.

.6 Composition and Instrumentation.

.7 Oriental Theories and Forms. Russian Music.

.8 Ancient Grecian Theories, Modes, and Forms.

.9

782 Dramatic Music.

.1 Grand Opera.

.2 Epic. Wagnerian.

.3 Other German Grand Opera.

.4 French Grand Opera.

.5 Italian Grand Opera.

.6 Comic and Satirical.

.7 Opera Bouffe.

.8 Operettas and Cantatas. See 783.4.

.9 Pantomimes. Masks, etc.

783 Sacred Music. See 245, Hymnology, Sacred Poetry for hymns alone; if with tunes they go in 783.9; 786.8, Organ; 246.7–8, Evangelistic use and Eucharistic music; 264.2, Public Worship.

.1 Organ and Orchestral. Accompaniment.

.2 Cathedral Services. Masses. Vespers, etc.

.21, Mass. Communion Services; .22, Common of the Mass; Kyrie, Gloria in Excelsis, Credo, Benedictus, Agnus Dei; .23, Proper of the Season; Offertory, Sequence, Gradual, Tract; .24, Choral Service; Antiphonal, Responsive; .25, Plain Song; .26, Litanies; .27, Lenten and Penitential; Good Friday, "Reproaches"; .28, Festival; Christmas, Easter, etc.; .29, Processional. Recessional.

.3 Oratorio. Passion Music.

.4 Anthem. Motet. Sacred Cantata. Polyphonic School, Palestrina. 16th Century.

.5 Chant. Gregorian. Anglican.

.6 Chorale. Tune. Carol.

.7 Evangelistic. Mission. Revival. Sunday School.

.8 Choir. Men and Boys. Quartet. Chorus.

.9 Congregational Singing. Psalmody. Hymnody.

784 Vocal Music.

.1 Glee. Madrigal. Round. Catch.

.2 Aria. Cavatina. Recitative. e. g. in Oratorio, Mass, Opera.

.3 Ballad and Song. Romantic. Idyllic. Sentimental. e. g. Modern German.

.4 Popular Ballads. Volkslied. e. g. Irish, Scotch, etc.

.5 Festival. e. g. Sængerbund. Eisteddfod. Competitive.

.6 College, Society Songs, and Choruses.

.7 Negro Minstrelsy. Plantation Songs.

.8 Collected Songs.

.81, Solos; .82, Duets; .83, Trios; .84, Quartets; .85, Other Part Songs; .86, Choruses; .87, Collections for Male Voices; .88, Collections for Female Voices; .89, Other Special Collections.

.9 Vocal Hygiene, Culture, Development, and Methods. Tonic-Sol-Fa.

785 Orchestral Music.

For Dramatic Orchestral Music, see 782; Sacred, 783.1.

.1 Symphony. Three or more movements; e. g. Adagio, Andante, Allegro, Allegretto, Scherzo, Finale, etc.

.2 Dramatic, Illustrative, Descriptive, Imitative.
e. g. Mendelssohn's Mid-Summer Night's Dream.

.3 Romantic. Idyllic.

.4 Program Music.

.5 Overture. e. g. Beethoven's "Leonores."

.6 Concerto. Orchestral with Solo Instrument.

.7 Chamber Music.

.8 Suite.

.9 Arrangements. Transcriptions. Pot Pourris.

786 Piano and Organ.

.1 Piano. History.

.2 Manufacture. Tuning. Temperament.

.3 Instruction.

.4 Piano Music. General Collections. For Piano Concerto, see 785.6.

.41 Sonata. Sonatina. Rondo.

.42 Fantasia. Arabesque.

.43 Nocturne. Meditation. Songs without Words. Romantic. Descriptive.

.44 March and March-form. Polonaise. Polka. Mazourka.

.45 Dance-form. National. Classical. Idealized.

.46 Modern Dance Music. Society. Festive.

.47 Etudes. Artistic. For Etudes for Instruction, see 786.3.

.48 Variations. Transcriptions.

.49 Arrangements. Four Hands and more. e. g. Orchestral Music arranged for Piano.

786.5 Organ. History.

.6 Building.

.7 Instruction.

.8 Organ Music. See 783, Sacred Music.

.81 Sonata. .82 Fugue. .83 Preludes. .84 Interludes. .85 Postludes. .86 Offertories. .87 Voluntaries. Improvisation. .88 Organ and Piano. .89 Organ, Piano, and Orchestra.

.9 Cabinet Organ. Melodeon.

787 Stringed Instruments.

Including with each, History, Manufacture, Instruction, Music, etc Music for two instruments is put with the one most prominent in the composition.

Bowed.

.1 Violin.

.2 Viola.

.3 Violoncello.

.4 Double Bass. Contra Bass.

Plectral.

.5 Harp.

.6 Guitar. Lute. Mandolin, etc.

.7 Banjo.

.8 Zither.

.9 Other Stringed Instruments. Harpsichord.

788 Wind Instruments.

Including with each, History, Manufacture, Instruction, Music, etc.

Brass.

.1 Trumpet. Slide and Valve.

.2 Trombone.

.3 Cornet.

.4 Horns and other Brass Wind Instruments.

.41 French Horn.

.42 Saxhorn.

.43 Saxophone.

.44 Euphonium.

.45 Ophicleide.

.46 Key Bugle.

.47 Valve Bugle.

.48 Bass. Tuba and Contrabass Tuba. Serpent.

.49 Other.

Wood. Flute Group.

.5 Flute. Waldflute. Piccolo. Fife. Flageolet.

Wood. Reed Group.

.6 Clarinet. Bass Clarinet. Bassethorn.

.7 Oboe. D'amore. Da Caccia. Cor Anglais.

.8 Bassoon. Double Bassoon. Bombardon.

.9 Other Reed Wind Instruments. Bagpipe.

789 Percussion and Mechanical Instruments.

Percussion.

.1 Drum.
.2 Cymbals.
.3 Triangle.
.4 Tambourine. Castanets. Bones.
.5 Bells. Chimes. Carillon.
.6 Other Percussion Instruments. Xylophone,

Mechanical.

.7 Orchestrion.
.8 Music Box.
.9 Other Mechanical Instruments.

790 Amusements.

For Ethics of amusements, see 175.

791 Public Entertainment.

Concert, Panorama, Circus, Menagerie, Summer Resort, Garden, Rink, Museum, Fair, Festival.

792 Theater. Pantomime. Opera. See also 782, Dramatic music.

793 In-door Amusements.

Private Theatricals, Tableaux, Charades, Dancing.

794 Games of Skill.

Chess, Checkers, Billiards, Bowling, Bagatelle.

795 Games of Chance.

Cards, Dice, Backgammon, Dominoes.

796 Out-door Sports.

Children's Sports, Athletic Sports, Coasting, Skating, Cycling, Quoits, Archery, Croquet, Lawn Tennis.

797 Boating and Ball.

Rowing, Yachting, Base-ball, Foot-ball, Cricket, Polo.

798 Horsemanship and Racing.

799 Fishing, Hunting, Target Shooting.

Literature.

The classification of literature is by *language* not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assigned to individual authors include only their *literary* works of that section and complete works which cannot be divided. Books on other subjects go with their proper subjects, unless a "special library" attracts all the authors' works, lives, etc. An author writing in two periods has all his books put in the one where most of them belong.

800 Literature. General Works.

801 Philosophy. Theories. Literary Æsthetics.

802 Compends. Outlines.

803 Dictionaries. Cyclopedias.

804 Essays. Lectures. Addresses.

805 Periodicals. Magazines. Reviews.

806 Societies. Transactions. Reports, etc.

807 Study and Teaching of Literature.

808 [Rhetoric.] Treatises. Collections.

Divided .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; see also 784.9, Vocal Culture; .6, Letters, Epistolography; .7, Satire, Humor; .8, Collections too general to go with any one language, e. g. a book of Quotations from many languages.
These heads, and the same under 800, include only works about Poetry, etc., regardless of language.

809 History of Literature in general. Including general histories of books and knowledge; e. g. Hallam's Literature of Middle ages.

Divided like 808. .1, Poetry; .2, Drama; .3, Fiction, etc.

810 American Literature.

Includes Canadian English.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on American Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of American Literature.

1 American Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of American Poetry.

.1 **Colonial, 1607–1776.**

.11	Sandys, George	1577–1644.
.12	Bradstreet, Anne	1612–1672.
.13	Wigglesworth, Michael	1631–1705.
.14	Green, Joseph	1706–1780.
.15	Livingston, William	1723–1790.
.16	Ferguson, Elizabeth	1739–1801.

.2 **Post-Revolutionary, 1776–1830.**

.21	Trumbull, John	1750–1831.
.22	Dwight, Timothy	1752–1817.
.23	Barlow, Joel	1755–1812.
.24	Freneau, Philip	1752–1832.
.25	Alsop, Richard	1761–1841.
.26	Pierpont, John	1785–1866.
.27	Dana, Richard Henry	1787–1879.
.28	Sprague, Charles	1791–1875.
.29	Minor Poets.	

811.3 **Middle 19th Century, 1830–1861.**

.31	Halleck, Fitz-Greene	1790–1867.
.32	Poe, Edgar Allan	1809–1849.
.33	**Bryant, William Cullen**	1794–1878.
.34	**Longfellow, Henry Wadsworth**	1807–1882.
.35	Read, Thomas Buchanan	1822–1872.
.36	**Whittier, John Greenleaf**	1807–
.37	**Lowell, James Russell**	1819–
.38	Whitman, Walt	1819–
.39		

.4 **Later 19th Century, 1861–**

.41	Stoddard, Richard Henry	1825–
.42	Hayne, Paul Hamilton	1831–
.43	Stedman, Edmund Clarence	1833–
.44	Winter, William	1836–
.45	Miller, Cincinnatus Hiner, (Joaquin.)	1841–
.46	Taylor, Bayard	1825–1878.
.47	Carey, Alice and Phoebe.	
.48		
.49		

812 American Drama.

.1 **Colonial, 1607–1776.**

.11	Warren, Mercy	1728–1814.
.12	Godfrey, Thomas	1736–1763.
.13		

.2 **Post-Revolutionary, 1776–1830.**

.21	Tyler, Royall	1757–1826.
.22	Dunlap, William	1766–1839.
.23	Hillhouse, James Abraham	1789–1841.
.24	Ingersoll, Charles Jared	1782–1862.
.25		

.3 **Middle 19th Century, 1830–1861.**

.31	Ritchie, Anna Cora Mowatt	1818–1870.
.32	Matthews, Cornelius	1817–
.33	Boker, George Henry	1823–
.34		

.4 **Later 19th Century, 1861–**

.41

813 American Fiction.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Brackenridge, Hugh Henry	1748–1816.
.22	Rowson, Susanna	1762–1824.
.23	Brown, Charles Brockden	1771–1810.
.24	**Cooper, James Fenimore**	1789–1851.
.25	Ware, William	1797–1852.
.26	**Neal, John**	1793–
.27		
.28		
.29		

813.3 **Middle 19th Century, 1830–1861.**

.31	Thompson, Daniel Pierce	1795–1868.
.32	Kennedy, John Pendleton	1795–1870.
.33	**Hawthorne, Nathaniel**	1804–1864.
.34	Judd, Sylvester	1813–1853.
.35	Simms, William Gilmore	1806–1870.
.36	Melville, Herman	1819–
.37	Stowe, Harriet Beecher	1812–
.38	Howarth, Frank.	
.39		

.4 **Later 19th Century, 1861–**

.41	Alcott, Louisa May	1832–1888.
.42	Eggleston, Edward	1837–
.43	Howells, William Dean	1837–
.44	Aldrich, Thomas Bailey	1836–
.45	Harte, Francis Bret	1839–
.46	James, Henry	1843–
.47	Hawthorne, Julian	1846–
.48	Burnett, Frances Hodgson	1849–
.49	Minor Novelists.	

814 American Essays.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Rush, Benjamin	1745–1813.
.22	Webster, Noah	1758–1843.
.23	Channing, William Ellery	1780–1842.

.3 **Middle 19th Century, 1830–1861.**

.31	Ossoli, Margaret Fuller	1810–1850.
.32	Giles, Henry	1809–1882.
.33	Tuckerman, Henry Theodore	1813–1871.
.34	**Holland, Josiah Gilbert**	1819–1881.
.35	Whipple, Edwin Percy	1819–1886.
.36	Emerson, Ralph Waldo	1803–1882. See also 191.3.
.37	Lowell, J. R.	1819–1891

.4 **Later 19th Century, 1861–**

.41	Burroughs, John	1837–
.42	Matthews, Wm.	
.43	Matthews, Brander	
.44		

815 American Oratory.

.1 **Colonial, 1607–1776.**

.11

.12

.2 **Post-Revolutionary, 1776–1830.**

.21	Hamilton, Alexander	1757–1804.
.22	Ames, Fisher	1758–1808.
.23	Wirt, William	1772–1834.
.24	Randolph, John	1773–1833.
.25	Clay, Henry	1777–1852.
.26	Calhoun, John Caldwell	1782–1850.
.27	Webster, Daniel	1782–1852.
.28		
.29		

815.3 **Middle 19th Century, 1830–1861.**

.31	Everett, Edward.	1794–1865.
.32	Choate, Rufus.	1799–1859.
.33	Sumner, Charles.	1811–1874.
.34	Phillips, Wendell.	1811–1884.
.35	Chapin, Edwin Hubbell.	1814–1880.
.36	Beecher, Henry Ward.	1813–1887.

.4 **Later 19th Century, 1861–**

.41

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.43

816 American Letters.

Subdivided by periods, like 811.

817 American Satire and Humor.

.1 **Colonial, 1607–1776.**

.11	Ward, Nathaniel.	1570–1653.
.12	Alsop, George.	1638–
.13	Byles, Mather.	1706–1788.
.14	Hopkinson, Francis.	1737–1791.
.15	Peters, Samuel Andrew.	1735–1826.

.2 **Post-Revolutionary, 1776–1830.**

.21	Story, Isaac.	1774–1803.
.22	Fessenden, Thomas Green.	1771–1837.
.23	Paulding, James Kirke.	1779–1860.
.24	Irving, Washington.	1783–1859.
.25	Verplanck, Gulian Crommelin.	1786–1870.

.26

.27

.3 **Middle 19th Century, 1830–1861.**

.31	Neal, Joseph Clay.	1807–1847.
.32	Holmes, Oliver Wendell.	1809–
.33	Shelton, Frederick William.	1814–1881.
.34	Shillaber, B. P. (Mrs. Partington.)	1814–
.35	Saxe, John Godfrey.	1816–
.36	Cozzens, Frederick Swartout.	1818–1869.
.37	Browne, C. F., (Artemus Ward.)	1834–1867.
.38	Haliburton, Thomas Chandler.	1796–1865.
.39	Minor Satirists and Humorists.	

.4 **Later 19th Century, 1861–**

.41	Warner, Charles Dudley.	1829–
.42	Locke, David Ross, (Nasby.)	1833–
.43	Burdette, Robert J.	1844–
.44	Clemens, S. L., (Mark Twain.)	1835–
.45	Carleton, William.	1845–
.46	Shaw, Henry W., (Josh Billings.)	1818–1885.

.47

818 American Miscellany.

.3 **Middle 19th Century, 1830–1861.**

.31	Thoreau, Henry David.	1817–1862.
.32	Mitchell, Donald Grant, (Ik Marvel.)	1822–

820 English Literature.

820.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on English Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

821 English Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; .09, History of English Poetry.

.1 **Early English, 1066–1400.**

.11	Layamon	1150–1207.
.12	Ormin	1187–1237.
.13	Robert of Gloucester	1245–1307.
.14	Minot, Lawrence	1313–1352.
.15	Langland, William	1332–1399.
.16	Barbour, John	1316–1395.
.17	Chaucer, Geoffrey	1340–1400.
.18	Gower, John	1325–1408.
.19	Minor Writers.	

.2 **Pre-Elizabethan, 1400–1558.**

.21	Lydgate, John	1369–1461.
.22	Skelton, John	1460–1529.
.23	Dunbar, William	1460–1520.
.24	Douglas, Gavin	1474–1522.
.25	Hawes, Stephen	1483–1509.
.26	Lyndsay, Sir David	1490–1555.
.27	Wyatt, Sir Thomas	1503–1542.
.28	Surrey, Henry Howard, earl of	1517–1547.
.29	Minor Writers.	

.3 **Elizabethan, 1558–1625.**

.31	Spenser, Edmund	1553–1599.
.32	Sidney, Sir Philip	1554–1586.
.33	Daniel, Samuel	1562–1619.
.34	Drayton, Michael	1563–1631.
.35	Davies, John	1569–1626.
.36	Drummond, William	1585–1649.
.37	Fletcher, Giles and Phineas	1585–1650.
.38	Herbert, George	1593–1632.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625–1702.**

.41	Suckling, Sir John	1609–1642.
.42	Crashaw, Richard	1616–1650.
.43	Herrick, Robert	1591–1674.
.44	Waller, Edmund	1605–1687.
.45	Lovelace, Richard	1618–1658.
.46	Cowley, Abraham	1618–1667.
.47	Milton, John	1608–1674.
.48	Dryden, John	1631–1700.
.49	Minor Writers.	

INTENTIONAL SECOND EXPOSURE

815.3 **Middle 19th Century, 1830–1861.**

.31	Everett, Edward.	1794–1865.
.32	Choate, Rufus.	1799–1859.
.33	Sumner, Charles.	1811–1874.
.34	Phillips, Wendell.	1811–1884.
.35	Chapin, Edwin Hubbell.	1814–1880.
.36	Beecher, Henry Ward.	1813–1887.

.4 **Later 19th Century, 1861–**

.41

.42

.43

816 American Letters.

Subdivided by periods, like 811.

817 American Satire and Humor.

.1 **Colonial, 1607–1776.**

.11	Ward, Nathaniel.	1570–1653.
.12	Alsop, George.	1638–
.13	Byles, Mather.	1706–1788.
.14	Hopkinson, Francis.	1737–1791.
.15	Peters, Samuel Andrew.	1735–1826.

.2 **Post-Revolutionary, 1776–1830.**

.21	Story, Isaac.	1774–1803.
.22	Fessenden, Thomas Green.	1771–1837.
.23	Paulding, James Kirke.	1779–1860.
.24	**Irving, Washington.**	1783–1859.
.25	Verplanck, Gulian Crommelin.	1786–1870.
.26		
.27		

.3 **Middle 19th Century, 1830–1861.**

.31	Neal, Joseph Clay.	1807–1847.
.32	**Holmes, Oliver Wendell.**	1809–
.33	Shelton, Frederick William.	1814–1881.
.34	Shillaber, B. P. (Mrs. Partington.)	1814–
.35	Saxe, John Godfrey.	1816–
.36	Cozzens, Frederick Swartout.	1818–1869.
.37	Browne, C. F., (Artemus Ward.)	1834–1867.
.38	Haliburton, Thomas Chandler.	1796–1865.
.39	Minor Satirists and Humorists.	

.4 **Later 19th Century, 1861–**

.41	Warner, Charles Dudley.	1829–
.42	Locke, David Ross, (Nasby.)	1833–
.43	Burdette, Robert J.	1844–
.44	Clemens, S. L., (Mark Twain.)	1835–
.45	Carleton, William.	1845–
.46	Shaw, Henry W., (Josh Billings.)	1818–1885.
.47		

818 American Miscellany.

.3 **Middle 19th Century, 1830–1861.**

.31	Thoreau, Henry David.	1817–1862.
.32	Mitchell, Donald Grant, (Ik Marvel.)	1822–

820 English Literature.

820.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on English Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

821 English Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; .09, History of English Poetry.

.1 **Early English, 1066–1400.**

.11	Layamon	1150–1207.
.12	Ormin	1187–1237.
.13	Robert of Gloucester	1245–1307.
.14	Minot, Lawrence	1313–1352.
.15	Langland, William	1332–1399.
.16	Barbour, John	1316–1395.
.17	**Chaucer, Geoffrey**	1340–1400.
.18	Gower, John	1325–1408.
.19	Minor Writers.	

.2 **Pre-Elizabethan, 1400–1558.**

.21	Lydgate, John	1369–1461.
.22	Skelton, John	1460–1529.
.23	Dunbar, William	1460–1520.
.24	Douglas, Gavin	1474–1522.
.25	Hawes, Stephen	1483–1509.
.26	Lyndsay, Sir David	1490–1555.
.27	Wyatt, Sir Thomas	1503–1542.
.28	Surrey, Henry Howard, earl of	1517–1547.
.29	Minor Writers.	

.3 **Elizabethan, 1558–1625.**

.31	**Spenser, Edmund**	1553–1599.
.32	Sidney, Sir Philip	1554–1586.
.33	Daniel, Samuel	1562–1619.
.34	Drayton, Michael	1563–1631.
.35	Davies, John	1569–1626.
.36	Drummond, William	1585–1649.
.37	Fletcher, Giles and Phineas	1585–1650.
.38	Herbert, George	1593–1632.
.39	Minor Writers	

.4 **Post-Elizabethan, 1625–1702.**

.41	Suckling, Sir John	1609–1642.
.42	Crashaw, Richard	1616–1650.
.43	Herrick, Robert	1591–1674.
.44	Waller, Edmund	1605–1687.
.45	Lovelace, Richard	1618–1658.
.46	Cowley, Abraham	1618–1667.
.47	**Milton, John**	1608–1674.
.48	**Dryden, John**	1631–1700.
.49	Minor Writers.	

821.5 **Queen Anne,** Early 18th Century, **1702–1745.**

.51	Prior, Matthew	1664–1721.	
.52	Parnell, Thomas	1679–1717.	
.53	**Pope, Alexander**	1688–1744.	See also 827.5r.
.54	Ramsay, Allan	1686–1758.	
.55	Young, Edward	1684–1765.	
.56	Thomson, James	1700–1748.	
.57	Collins, William	1721–1759.	
.58	Shenstone, William	1714–1763.	
.59	Minor Writers.		

.6 **Later 18th Century,** Pre-Revolutionary, **1745–1800.**

.61	Gray, Thomas	1716–1771.	
.62	Akenside, Mark	1721–1770.	
.63	Chatterton, Thomas	1752–1770.	
.64	Goldsmith, Oliver	1728–1774.	See also 823.64 and 824.66.
.65	Cowper, William	1731–1800.	
.66	Macpherson, James	1738–1796.	
.67	**Burns, Robert**	1759–1796.	
.68	White, Henry Kirke	1785–1806.	
.69	Minor Writers.		

.7 **Early 19th Century,** Post-Revolutionary, **1800–1837.**

.71	Wordsworth, William	1770–1850.	
.72	Coleridge, Samuel Taylor	1772–1834.	
.73	Southey, Robert	1774–1843.	
.74	Scott, Sir Walter	1771–1832.	See also 823.73.
.75	Moore, Thomas	1779–1852.	
.76	Byron, Geo. Gordon Noel	1788–1824.	
.77	Shelley, Percy Bysshe	1792–1822.	
.78	Keats, John	1795–1821.	
.79	Minor Writers.		

.8 **Victorian Period, 1837–**

.81	Tennyson, Alfred	1809–
.82	Browning, Elizabeth Barrett	1809–1861.
.83	Browning, Robert	1812–
.84	Rossetti, Dante Gabriel	1828–1882
.85	Morris, William	1834–
.86	Swinburne, Algernon Charles	1837–
.87		
.88		
.89	Minor Writers.	

822 English Drama.

.1 **Early English, 1066–1400.**

.11	Chester Plays.	
.12	Coventry Plays.	
.13	Townley Plays.	

.2 **Pre-Elizabethan, 1400–1558.**

.21	Heywood, John	1506–1565.
.22	Udall, Nicholas	1505–1564.
.23	Bale, John	1495–1563.

.3 **Elizabethan, 1558–1625.**

.31	Greene, Robert	1561–1592.
.32	Marlowe, Christopher	1564–1593.
.33	**Shakspere, William**	1564–1616.
.34	**Jonson, Ben**	1574–1637.
.35	**Beaumont, Francis and Fletcher, John**	1576–1625.
.36	Webster, John	1582–1652.
.37	Massinger, Philip	1584–1640.
.38	Ford, John	1586–1639.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625–1702.**

.41	Davenant, Sir William	1605–1668.
.42	Etherege, Sir George	1637–1688.
.43	Crowne, John	1644–1699.
.44	Wycherly, William	1640–1715.
.45	Otway, Thomas	1651–1685.
.46	**Congreve, William**	1670–1729.
.47	Vanbrugh, Sir John	1666–1726.
.48	Farquhar, George	1678–1707.
.49	Minor Writers.	

.5 **Queen Anne,** Early 18th Century, **1702–1745.**

.51	Dennis, John	1657–1734.
.52	Southerne, Thomas	1660–1746.
.53	Centlivre, Mrs. Susannah (Freeman)	1668–1723.
.54	Cibber, Colley	1671–1757.
.55	Rowe, Nicholas	1674–1718.
.56	Gay, John	1688–1732.
.57	Lillo, George	1693–1739.
.58		
.59	Minor Writers.	

.6 **Later 18th Century, 1745–1800.**

.61	Garrick, David	1716–1779.	
.62	Foote, Samuel	1721–1777.	
.63	Colman, George, the elder	1732–1794.	
.64	Home, John	1724–1808.	
.65	Cumberland, Richard	1732–1811.	
.66	**Sheridan, Richard Brinsley**	1751–1816.	See also 825.64.
.67	Inchbald, Mrs. Elizabeth (Simpson)	1753–1821.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Baillie, Joanna	1762–1851.
.72	Knowles, James Sheridan	1784–1862.

.8 **Victorian Period, 1837–**

INTENTIONAL SECOND EXPOSURE

821.5 Queen Anne, Early 18th Century, **1702–1745.**

.51	Prior, Matthew	1664–1721.	
.52	Parnell, Thomas	1679–1717.	
.53	**Pope, Alexander**	1688–1744.	See also 827.51.
.54	Ramsay, Allan	1686–1758.	
.55	Young, Edward	1684–1765.	
.56	Thomson, James	1700–1748.	
.57	Collins, William	1721–1759.	
.58	Shenstone, William	1714–1763.	
.59	Minor Writers.		

.6 Later 18th Century, Pre-Revolutionary, **1745–1800.**

.61	Gray, Thomas	1716–1771.	
.62	Akenside, Mark	1721–1770.	
.63	Chatterton, Thomas	1752–1770.	
.64	Goldsmith, Oliver	1728–1774.	See also 823.64 and 824.66.
.65	Cowper, William	1731–1800.	
.66	Macpherson, James	1738–1796.	
.67	**Burns, Robert**	1759–1796.	
.68	White, Henry Kirke	1785–1806.	
.69	Minor Writers.		

.7 Early 19th Century, Post-Revolutionary, **1800–1837.**

.71	Wordsworth, William	1770–1850.	
.72	Coleridge, Samuel Taylor	1772–1834.	
.73	Southey, Robert	1774–1843.	
.74	Scott, Sir Walter	1771–1832.	See also 823.73.
.75	Moore, Thomas	1779–1852.	
.76	Byron, Geo. Gordon Noel	1788–1824.	
.77	Shelley, Percy Bysshe	1792–1822.	
.78	Keats, John	1795–1821.	
.79	Minor Writers.		

.8 Victorian Period, 1837–

.81	Tennyson, Alfred	1809–
.82	Browning, Elizabeth Barrett	1809–1861.
.83	Browning, Robert	1812–
.84	Rossetti, Dante Gabriel	1828–1882
.85	Morris, William	1834–
.86	Swinburne, Algernon Charles	1837–
.87		
.88		
.89	Minor Writers.	

822 English Drama.

.1 Early English, 1066–1400.

.11	Chester Plays.	
.12	Coventry Plays.	
.13	Townley Plays.	

.2 Pre-Elizabethan, 1400–1558.

.21	Heywood, John	1506–1565.
.22	Udall, Nicholas	1505–1564.
.23	Bale, John	1495–1563.

.3 Elizabethan, 1558–1625.

.31	Greene, Robert	1561–1592.
.32	Marlowe, Christopher	1564–1593.
.33	**Shakspere, William**	1564–1616.
.34	**Jonson, Ben**	1574–1637.
.35	**Beaumont, Francis and Fletcher, John**	1576–1625.
.36	Webster, John	1582–1652.
.37	Massinger, Philip	1584–1640.
.38	Ford, John	1586–1639.
.39	Minor Writers.	

.4 Post-Elizabethan, 1625–1702.

.41	Davenant, Sir William	1605–1668.
.42	Etherege, Sir George	1637–1688.
.43	Crowne, John	1644–1699.
.44	Wycherly, William	1640–1715.
.45	Otway, Thomas	1651–1685.
.46	**Congreve, William**	1670–1729.
.47	Vanbrugh, Sir John	1666–1726.
.48	Farquhar, George	1678–1707.
.49	Minor Writers.	

.5 Queen Anne, Early 18th Century, **1702–1745.**

.51	Dennis, John	1657–1734.
.52	Southerne, Thomas	1660–1746.
.53	Centlivre, Mrs. Susannah (Freeman)	1668–1723.
.54	Cibber, Colley	1671–1757.
.55	Rowe, Nicholas	1674–1718.
.56	Gay, John	1688–1732.
.57	Lillo, George	1693–1739.
.58		
.59	Minor Writers.	

.6 Later 18th Century, 1745–1800.

.61	Garrick, David	1716–1779.	
.62	Foote, Samuel	1721–1777.	
.63	Colman, George, the elder	1732–1794.	
.64	Home, John	1724–1808.	
.65	Cumberland, Richard	1732–1811.	
.66	**Sheridan, Richard Brinsley**	1751–1816.	See also 825.64.
.67	Inchbald, Mrs. Elizabeth (Simpson)	1753–1821.	
.68			
.69	Minor Writers.		

.7 Early 19th Century, 1800–1837.

.71	Baillie, Joanna	1762–1851.
.72	Knowles, James Sheridan	1784–1862.

.8 Victorian Period, 1837–

823 English Fiction.

This will for books dealing with Eng fiction. Eng includes Can. & Australian lit when treated with English. Not otherwise

.1 **Early English, 1066–1400.**

.2 **Pre-Elizabethan,** (More's Utopia,) **1400–1558.**

.3 **Elizabethan,** (Lyly's Euphues,) **1558–1625.**

.4 **Post-Elizabethan, 1625–1702.**

.41	Harrington, James	1611–1677.
.42	Bunyan, John	1628–1688.
.43	Mackenzie, George	1636–1691.
.44	Behn, Aphra	1640–1689.

.5 **Queen Anne, 1702–1745.**

.51	DeFoe, Daniel	1661–1731.
.52	Fielding, Henry	1707–1754.

.6 **Later 18th Century, 1745–1800.**

.61	Richardson, Samuel	1689–1761.	
.62	Sterne, Laurence	1713–1768.	
.63	Smollett, Tobias George	1721–1771.	
.64	Goldsmith, Oliver	1728–1774.	See also 821.64 and 824.66.
.65	Mackenzie, Henry	1745–1831.	
.66	Arblay, Frances (Burney), madame d'	1752–1840.	
.67			
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Lewis, Matthew Gregory	1775–1818.	
.72	Edgeworth, Maria	1767–1849.	
.73	Scott, Sir Walter	1771–1832.	See also 821.74.
.74	Austen, Jane	1775–1817.	
.75	Porter, Jane	1776–1850.	
.76	Peacock, Thomas Love	1785–1866.	
.77	Galt, John	1779–1839.	
.78	Marryat, Frederick	1792–1848.	
.79	Minor Writers.		

.8 **Victorian Period, 1837–**

.81	Brontë, Charlotte	1816–1855.
.82	Thackeray, William Makepeace	1811–1863.
.83	Dickens, Charles	1812–1870.
.84	Lytton, Edw. Geo. Bulwer, 1st baron	1803–1873.
.85	Kingsley, Charles	1819–1875.
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–1881.
.87	Trollope, Anthony	1815–1882.
.88	Eliot, George	1819–1880.
.89	Minor Writers.	

824 English Essays.

.3 **Elizabethan,** (Bacon,) **1558–1625.**

.4 **Post-Elizabethan,** (Locke), **1625–1702.**

.5 **Queen Anne, 1702–1745.**

.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713.
.52	Addison, Joseph	1672–1719.
.53	Steele, Sir Richard	1671–1729.
.54	Budgell, Eustace	1686–1737.
.55		
.56		
.57		
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.59		

.6 **Later 18th Century, 1745–1800.**

.61	Moore, Edward	1712–1757.	
.62	Kames, Henry Home, lord	1696–1782.	
.63	Johnson, Samuel	1709–1784.	
.64	Hume, David	1711–1776.	See also 192.4.
.65	Hawkesworth, John	1715–1773.	
.66	Goldsmith, Oliver	1728–1774.	See also 821.64 and 823.64.
.67	Gibbon, Edward	1737–1794.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Mackintosh, Sir James	1765–1832.
.72	Smith, Sydney	1771–1845.
.73	Jeffrey, Francis, lord	1773–1850.
.74	Brougham, Henry, 1st baron	1778–1868.
.75	Lamb, Charles	1775–1834.
.76	Hazlitt, William	1778–1830.
.77	Hunt, Leigh	1784–1859.
.78		
.79	Minor Writers.	

.8 **Victorian Period, 1837–.**

.81	De Quincey, Thomas	1785–1859.
.82	Carlyle, Thomas	1795–188[illegible].
.83	Macaulay, Thomas Babington, 1st baron	1800–1859.
.84	Helps, Sir Arthur	1817–1875
.85	Arnold, Matthew	1822–
.86	Ruskin, John	1819–
.87		
.88		
.89	Minor Writers.	

825 English Oratory. For Speakers see 808.5.

Subdivided by periods like 821.

.6 Later 18th Century, 1745–1800.

.61	Chatham, William Pitt, 1st earl of	1708–1778.	
.62	**Burke, Edmund**	1729–1797.	
.63	Fox, Charles James	1749–1806.	
.64	**Sheridan, Richard Brinsley**	1751–1816.	See also 822.66.
.65	Grattan, Henry	1750–1820.	
.66	Pitt, William	1759–1806.	

826 English Letters.

Subdivided by periods like 821.

.2 Pre-Elizabethan, (Paston Letters,) **1400–1558.**

.5 Queen Anne, 1702–1745.

.51	Montagu, Lady Mary (Pierrepont) Wortley	1690–1762.
.52	Chesterfield, Philip Dormer Stanhope, 4th earl of	1694–1773.
.53		

.6 Later 18th Century, 1745–1800.

.61	Orford, Horace Walpole, 4th earl of	1717–1797.
.62	Montagu, Mrs. Elizabeth (Robinson)	1720–1800.

827 English Satire and Humor.

.2 Pre-Elizabethan, 1400–1558.

.21	Barclay, Alexander	1475–1552.

.3 Elizabethan, 1558–1625.

.31	Gascoigne, George	1537–1577.
.32	Harington, Sir John	1561–1612.
.33	Hall, Joseph	1574–1656.
.34	Marston, John	1575–1634.
.35	Donne, John	1573–1631.
.36		
.37		
.38		
.39		

.4 Post-Elizabethan, 1588–1667.

.41	Wither, George	1588–1667.
.42	**Butler, Samuel**	1612–1680
.43	Marvell, Andrew	1620–1678.
.44	D'Urfey, Thomas	1625–1723.
.45	Oldham, John	1653–1683.
.46	Brown, Thomas	1663–1704.
.47	King, William	1663–1712.
.48	Garth, Sir Samuel	1665–1719.
.49	Minor Writers.	

827.5 Queen Anne, 1702–1745.

.51	Ward, Edward	1667–1731.
.52	**Swift, Jonathan**	1667–1745.
.53	Mandeville, Bernard de	1670–1733.
.54	Arbuthnot, John	1675–1735.
.55	**Pope, Alexander**	1688–1744. See also 821.53.
.56		
.57		
.58		

.6 Later 18th Century, 1745–1800.

.61	Churchill, Charles	1733–1765.
.62	Amory, Thomas	1691–1788.
.63	Whitehead, Paul	1710–1774.
.64	Junius	1679–1772.
.65	Wolcott, John (pseud. Peter Pindar.)	1738–1819.
.66		
.67		
.68		

.7 Early 19th Century, 1800–1837.

.71	Gifford, William	1757–1826.
.72	Hood, Thomas	1798–1845.
.73		
.74		
.75		
.76		

.8 Victorian, 1837–

.81	Jerrold, Douglas	1803–1857.
.82	Barrie, Jas. M.	
.83		
.84		
.85		
.86		

828 English Miscellany.

Anecdotes, Ana, Epigrams, Quotations, etc., if illustrative of any special subject (e. g., biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For Riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon Literature.

.1 Poetry.

.2 Cædmon.

.3 Beowulf.

.4 Cynewulf.

.5 Homilies and Religious.

.6 Ælfric.

.7 Alfred the Great.

.8 Miscellaneous.

.9 Historical and Biographical.

INTENTIONAL SECOND EXPOSURE

825 English Oratory. For Speakers see 808.5.

Subdivided by periods like 821.

.6 Later 18th Century, 1745–1800.

.61 Chatham, William Pitt, 1st earl of 1708–1778.
.62 **Burke, Edmund** 1729–1797.
.63 Fox, Charles James 1749–1806.
.64 **Sheridan, Richard Brinsley** 1751–1816. See also 822.66.
.65 Grattan, Henry 1750–1820.
.66 Pitt, William 1759–1806.

826 English Letters.

Subdivided by periods like 821.

.2 Pre-Elizabethan, (Paston Letters,) 1400–1558.

.5 Queen Anne, 1702–1745.

.51 Montagu, Lady Mary (Pierrepont) Wortley 1690–1762.
.52 Chesterfield, Philip Dormer Stanhope, 4th earl of 1694–1773.
.53

.6 Later 18th Century, 1745–1800.

.61 Orford, Horace Walpole, 4th earl of 1717–1797.
.62 Montagu, Mrs. Elizabeth (Robinson) 1720–1800.

827 English Satire and Humor.

.2 Pre-Elizabethan, 1400–1558.

.21 Barclay, Alexander 1475–1552.

.3 Elizabethan, 1558–1625.

.31 Gascoigne, George 1537–1577.
.32 Harington, Sir John 1561–1612.
.33 Hall, Joseph 1574–1656.
.34 Marston, John 1575–1634.
.35 Donne, John 1573–1631.
.36
.37
.38
.39

.4 Post-Elizabethan, 1588–1667.

.41 Wither, George 1588–1667.
.42 **Butler, Samuel** 1612–1680
.43 Marvell, Andrew 1620–1678.
.44 D'Urfey, Thomas 1625–1723.
.45 Oldham, John 1653–1683.
.46 Brown, Thomas 1663–1704.
.47 King, William 1663–1712.
.48 Garth, Sir Samuel 1665–1719.
.49 Minor Writers.

827.5 **Queen Anne, 1702–1745.**

.51 Ward, Edward 1667–1731.
.52 **Swift, Jonathan** 1667–1745.
.53 Mandeville, Bernard de 1670–1733.
.54 Arbuthnot, John 1675–1735.
.55 **Pope, Alexander** 1688–1744. See also 821.53.
.56
.57
.58

.6 Later 18th Century, 1745–1800.

.61 Churchill, Charles 1733–1765.
.62 Amory, Thomas 1691–1788.
.63 Whitehead, Paul 1710–1774.
.64 Junius 1679–1772.
.65 Wolcott, John 1738–1819.
(pseud. Peter Pindar.)
.66
.67
.68

.7 Early 19th Century, 1800–1837.

.71 Gifford, William 1757–1826.
.72 Hood, Thomas 1798–1845.
.73
.74
.75
.76

.8 Victorian, 1837–

.81 Jerrold, Douglas 1803–1857.
.82 Burnett, Jan. 27.
.83
.84
.85
.86

828 English Miscellany.

Anecdotes, Ana, Epigrams, Quotations, etc., if illustrative of any special subject (e. g., biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For Riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon Literature.

.1 Poetry.
.2 Cædmon.
.3 Beowulf.
.4 Cynewulf.
.5 Homilies and Religious.
.6 Ælfric.
.7 Alfred the Great.
.8 Miscellaneous.
.9 Historical and Biographical.

830 German Literature.

830.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on German Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

831 German Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of German Poetry.

.1 Before the Crusades, –1150.

.11 "Hildebrandslied."
.12 Otfried.
.13 "Ludwigslied."
.14 "Muspilli."

.2 Middle High, 1150–1300.

.21 "Nibelungenlied."
.22 "Gudrun," and minor folk epics.
.23 Heinrich von Veldeke –1200. See also 839.311 2.
.24 Wolfram von Eschenbach.
.25 Gottfried von Strassburg.
.26 Hartmann von Aue 1170–1220.
.27 Walther von der Vogelweide 1170–1230.
.28 Ulrich von Lichtenstein 1199–1276.
.29 Minor Writers.

.3 Period of Decline, 1300–1517.

31 Horneck, Ottokar von.
32 Hadamar von Laber.
33 Hermann von Sachsenheim –1458.
.34 Büheler, Hans. "Die sieben weisen Meister," 1414–
.35 Kaspar von der Röhn. "Das Heldenbuch."
.36 "Theuerdank."
.37 "Die Haimonskinder."
.38 Mastersingers.
.39 Minor Writers.

.4 Reformation. New High, 1517–1625.

.41 Agricola, Martin 1486–1556.
.42 Waldis, Burkard 1490–1558.
.43 Alberus, Erasmus 1500–1553.
.44 **Sachs, Hans** 1494–1576.
.45 Ringwaldt, Bartholomäus 1530–1599.
.46 Rollenhagen, Georg 1542–1609.
.47 Andreä, Johann Valentin 1586–1654.

.5 Period of Imitation, 1625–1750.

[The Silesian Schools.]

.51 Opitz von Boberfeld, Martin 1597–1639.
.52 Flemming, Paul 1609–1640.
.53 Logau, Friedrich von 1604–1655.
.54 Gerhardt, Paul 1607–1676.
.55 Hofmannswaldau, Christian Hofmann von 1618–1679.
.56 Zesen, Philipp von 1619–1689.
.57 Brockes, Barthold Heinrich 1680–1747.
.58 Bodmer, Johann Jakob 1698–1783.
.59 Minor Writers.

831.6 Classic Period, 1750–1830.

[For Göthe and Schiller, see 832.6.]

.61 Gellert, Christian Fürchtegott 1715–1769.
.62 **Klopstock, Friedrich Gottlieb** 1724–1803.
.63 Bürger, Gottfried August 1748–1794.
.64 **Herder, Johann Gottfried von** 1744–1803.
65 Voss, Johann Heinrich 1751–1826.
66 Körner, Karl Theodor 1791–1813.
67 Hölderlin, Johann Christian Friedrich 1770–1843.
68 Platen Hallermünde, August, graf von 1796–1835.
.69 Minor Writers.

.7 Post-Classic Period, 1830–1856.

.71 Arndt, Ernst Moritz 1769–1860.
.72 Eichendorff, Joseph, freiherr von 1788–1857.
.73 Uhland, Johann Ludwig 1787–1862.
.74 Rückert, Friedrich 1789–1866.
.75 **Heine, Heinrich** 1799–1856.
.76 Niembsch von Strehlenau, Nikolaus 1802–1850.
.77 Auersperg, Anton Alexander, graf von [Anastasius Grün.] 1806–1881.
.78 Freiligrath, Ferdinand 1810–1876.
.79 Minor Writers.

.8 Later 19th Century, 1856–

.81 Schefer, Leopold 1784–1862.
.82 Kinkel, Johann Gottfried 1815–1882.
.83 Geibel, Emanuel 1815–1884.
.84 Bodenstedt, Friedrich Martin 1819–
.85 SCHEFFEL, JOS. VIKTOR VON
.86
.87
.88
.89 Minor Writers.

832 German Drama.

.5 Period of Imitation, 1625–1750.

.51 Gryphius, Andreas 1616–1664.
.52 Lohenstein, Daniel Caspar 1635–1683.
.53 Weise, Christian 1642–1708.
.54 Gottsched, Johann Christoph 1700–1776.
.55 Gottsched, Luise Adelgunde Victorie (Culmus) 1713–1762.

.6 Classic Period, 1750–1830.

.61 **Lessing, Gottlob Ephraim** 1729–1781.
.62 **Göthe, Johann Wolfgang von** 1749–1832.
.63 **Schiller, Johann Christoph Friedrich** 1759–1805.
.64 Klinger, Friedrich Maximilian 1753–1831.
.65 Iffland, August Wilhelm 1759–1814.
.66 Kotzebue, August Friedrich Ferdinand von 1761–1819.
.67 Werner, Friedrich Ludwig Zacharias 1768–1823.
.68 Kleist, Heinrich Bernt Wilhelm von 1777–1811.
.69 Minor Writers.

832.7 **Post-Classic Period, 1830–1856.**

.71 Grabbe, Christian Dietrich 1801–1836.
.72 Griepenkerl, Wolfgang Robert 1810–1836.
.73 Grillparzer, Franz 1791–1872.
.74 Birch-Pfeiffer, Charlotte 1800–1868.
.75 Münch-Bellinghausen, Eligius Franz Joseph. [Friedrich Halm.] 1806–1866.
.76 Laube, Heinrich 1806–
.77 Hebbel, Friedrich 1815–1863.
.78 Gutzkow, Karl Ferdinand 1811–1878.
.79 Minor Writers.

.8 **Later 19th Century, 1856–**

.81 Benedix, Julius Roderich 1811–1873.
.82 Mosenthal, Salomon Hermann 1821–1877.
.83 Brachvogel, Albert Emil 1824–1878.
.84 Gottschall, Karl Rudolph 1823–
.85 Lindau, Paul 1839–
.89 Minor Writers.

833 German Fiction.

.5 **Period of Imitation, 1625–1750.**

.51 Büchholtz, Andrew Heinrich 1607–1671.
.52 Grimmelshausen, Hans Jakob Christoffel von 1625–1676.
.53 Anselm, Heinrich 1653–1697.
.54 "Robinsonaden."
.55 "Der Neue Amadis."

.6 **Classic Period, 1750–1830.**

.61 Wieland, Christoph Martin 1733–1813.
.62 Richter, Jean Paul Friedrich 1763–1825.
.63 Hardenberg, Friedrich von [Novalis] 1772–1801.
.64 Hoffmann, Ernst Theodor Wilhelm 1776–1822.
.65 La Motte Fouqué, Friedrich H; C; 1777–1843.
.66 Arnim, Ludwig Achim von 1781–1831.
.67 Hauff, Wilhelm 1802–1827.
.68 Chamisso, Adelbert von 1781–1838.
.69 Minor Writers.

.7 **Post-Classic Period, 1830-1856.**

.71 Zschokke, Johann Heinrich Daniel 1771–1848.
.72 Brentano, Clemens 1778–1842.
.73 Tieck, Ludwig 1773–1853.
.74 Postl, Karl [Charles Sealsfield] 1793–1864.
.75 Häring, Wilhelm [Wilibald Alexis] 1798–1871.
.76 Hahn-Hahn, Ida, gräfin von 1805–1880.
.77 Gerstäcker, Friedrich 1816–1872.
.78 Hackländer, Friedrich Wilhelm 1816–1877.
.79 Minor Writers.

.8 **Later 19th Century, 1856–**

.81 Auerbach, Berthold 1815–1882.
.82 Freytag, Gustav 1816–
.83 Scheffel, Joseph Viktor von 1826–
.84 Spielhagen, Friedrich 1829–
.85 Heyse, Paul Johann Ludwig 1830–
.86 Ebers, Georg 1837–
.89 Minor Writers.

834 German Essays. Subdivided by periods like 832.

835 German Oratory. " "

836 German Letters. " "

837 German Satire and Humor.

.2 **Middle High. Minnesingers, 1150–1300.**

.21 [Stricker, Der.] "Der Pfaffe Amis" und "Beispiele."
.22 "Salomon und Morolf."

.3 **Period of Decline, 1300–1517.**

.31 "Reineke Vos." See also 839.371.
.32 Brant, Sebastian 1458–1521.

.4 **Reformation. New High, 1517–1625.**

.41 Murner, Thomas "Tyll Eulenspiegel." 1475–1537.
.42 Fischart, Johann 1550–1589.

.5 **Period of Imitation, 1625–1750.**

.51 Moscherosch, Johann Michael 1601–1669.
.52 Rachel, Joachim 1618–1669.
.53 Wernicke, Christian 1660–1720.
.54 Liscow, Christian Ludwig 1701–1760.

.6 **Classic Period, 1750–1830.**

.61 Rabener, Gottlieb Wilhelm 1714–1771.
.62 Blumauer, Aloys 1755–1798.

838 German Miscellany. See 828, note.

839 Minor Teutonic Literatures.

Subdivided by form, Poetry, Drama, etc., like 830.

.1 **Low German.**

.2 **Frisian. Old Saxon.**

.3 **Dutch Literature. Flemish.**

.31 Dutch Poetry.

.311 **Middle Ages.** 1200–1450.
[.1, Jacob van Maerlant 1235–1291; (.2, Heinrije van Veldeke 1200, see 831.23;) .3, Jan I. van Brabant 1250–1294; .4, Melis Stoke 1310; .5, Dirc Potter 1428.]

.312 **Chambers of Rhetoric.** 1450–1600.
[.1, Antonius de Rovere 1482; .2, Anna Bijns 1500; .3, Matthijs de Castelein 1488–1548; .4, Cornelis Everaert 1550; .5, Jan Baptist Houwaert 1533–1599; .6, Dirk Volkerszoon Coornhert 1522–1590; .7, Philipp Marnix 1538–1598; .8, Cornelis van Ghistele 1600; .9, Minor Writers.]

.313 **Period of the Republic.** 1600–1700.
[.1, **Jacob Cats,** 1577–1660; .2, **Joost van der Vondel** 1587–1679; .3, Marie Tesselschade Visscher 1594–1649; .4, **Constantijn Huygens** 1596–1687; .5, Reyer Anslo 1626–1669; .6, Geraert Brandt 1626–1685; .7, Jan Antoniszoon van der Goes (Antonides) 1647–1684; .9, Minor Writers.]

.314 **Poetical Societies.** 1700–1800.
[.1, Lucas Rotgans 1654–1710; .2, Hubert Corneliszoon Poot 1689–1733; .3, Arnold Hoogvliet 1687–1763; .4, Sybrand Feitama 1694–1758; .5, Willem van Haren 1710–1768; .6, Jacob Bellamy 1757–1786; .7, Hieronymus van Alphen 1746–1803; .9, Minor Writers.]

.315 **Modern Period.** 1800–
[.1, Willem Bilderdijk 1756–1831; .2, Jan Frederik Helmers 1767–1813; .3, Cornelis Loots 1765–1834; .4, **Hendrik Tollens** 1780–1856; .5, Isaac da Costa 1798–1860; .6, Jan Jacob Lodewijk ten Kate 1819–; .9, Minor Writers.]

839.32 Dutch Drama.

.323 **Period of the Republic.** 1600–1700.

[.1, **Gerbrand Adriaenszoon Bredero** 1585–1618; .2, **Corneliszoon Hooft** 1581–1647; .3, Samuel Costa 1580–1650; .4, Jan Vos 1620–1667; .5, Guillelmus Ogier 1619–1689; .6, Joachim Oudaan 1628–1692; .9, Minor Writers.]

.324 **Poetical Societies.** 1700–1800.

[.1, Pieter Langendijk 1683–1756; .2, Andries Pels; .3, Balthasar Huydecoper 1695–1778; .4, Onno Zwier van Haren 1713–1779; .5, Jan Nomsz 1738–1803; .9, Minor Writers.]

.325 **Modern Period.** 1800–

[.1, Samuel Iperuszoon Wiselius 1769–1845; .2, Helvetius van den Bergh 1795–1865; .3, Hendrik Jan Schimmel 1824–.]

839.33 Dutch Fiction.

.334 **Poetical Societies.** 1700–1800.

[.1, Elisabeth Bekker Wolff 1738–1804; .2, Agatha Deken 1741–1804; .3, Rhijnvis Feith 1753–1824.]

335 **Modern Period.** 1800–

[.1, Adriaan Loosjes 1761–1818; .2, Jacob Vosmaer 1783–1834; .3, Jan Frederik Oltmans 1806–1854; .4, Jacob van Lennep 1802–1868; .5, **Hendrik Conscience** 1812–; .6, Anna Louisa Geertruida Bosboom-Toussaint 1812–.]

839.34 Dutch Essays.

.344 **Poetical Societies.** 1700–1800.

[Justus Van Effen 1684–1735.]

.345 **Modern Period.** 1800–

[.1, Johannes Henricus van der Palm 1763–1840; .2, Reinier Cornelis Bakhuizen van den Brink 1810–1865; .3, Everhardus Johannes Potgieter 1808–1875; .4, Nicolas Beets 1814–; .5, Coenraad Busken Huet 1826–.]

839.37 Dutch Satire and Humor.

.371 **Middle Ages.** 1200–1450.

[**Reinaert** (van den vos Reinaerde) see 837.31.]

.374 **Poetical Societies.** 1700–1800.

[Arend Simonszoon Fokke 1755–1812.]

839.38 Dutch Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.381 **Middle Ages.** 1200–1450.

[Jan van Boendale (Jan de Clerc), *Chronicles*, 1280–1365.]

.384 **Poetical Societies.** 1700–1800.

[Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–1773.]

.4 Platt Deutsch.

.5 Scandinavian.

.6 Old Norse. Icelandic. Faroese.

839.7 Swedish Literature.

.71 Swedish Poetry.

.711 **Middle Ages.** 1200–1520.

[.1, Nicolaus Hermanni 1391; .2, Bishop Tomas 1443; .3, Ericus Olai 1486; .4, Ballads (Folkvisor).]

.712 **Reformation.** 1520–1640.

[.1, Olaus Petri 1497–1552; .2, Laurentius Petri 1499–1573.]

.713 **Age of Stjernhjelm.** 1640–1740.

[.1, **Georg Stjernhjelm** 1598–1672; .2, Lars Johansson (Lucidor) 1640–1674; .3, Haquin Spegel 1645–1714; .4, Israel Holmström 1660–1708; .5, Gunno Eurelius Dahlstjerna 1661–1709; .6, Johan Runius 1679–1713; .7, Jacob Frese 1691–1729; .8, Samuel von Triewald 1688–1743; .9, Minor Writers.]

.714 **Age of Dalin.** 1740–1780.

[.1, Olof Carelius 1758; .2, **Olof von Dalin** 1708–1763; .3, Hedvig Charlotta Nordenflycht 1718–1763; .4, Anders Odel 1718–1773; .5, Gustaf Filip Creutz 1729–1785; .6, Gustaf Fredrik Gyllenborg 1731–1808; .7, Olof Bergklint 1733–1805; .9, Minor Writers.]

.715 **Age of Gustavus.** 1780–1800.

[.1, **Karl Mikael Bellman** 1740–1795; .2, Johan Henrik Kellgren 1751–1795; .3, Bengt Lidner 1757–1793; .4, Johan Gabriel Oxenstjerna 1750–1818; .5, Tomas Thorild 1759–1808; .6, Anna Maria Lenngren 1754–1817; .7, Karl Gustaf af Leopold 1756–1829; .8, Frans Mikael Franzén 1772–1847; .9, Minor Writers.]

.716 **Modern Period.** 1800–

[.1, Per Henrik Ling 1776–1839; .2, Johan Olof Wallin 1779–1839; .3, **Esaias Tegnér** 1782–1846; .4, Erik Johan Stagnelius 1793–1823; .5, Per Daniel Amadeus Atterbom 1790–1855; .6, Karl Jonas Ludwig Almqvist 1793–1866; .7, Johan Ludvig Runeberg 1804–1877; .8, Karl Vilhelm Böttiger 1807–1879; .9, Minor Writers.]

839.72 Swedish Drama.

.722 **Reformation.** 1520–1640.

[.1, Johan Messenius 1579–1637; .2, Magnus Olai Asteropherus –1647; .3, Andreas Johannis Prytz 1590–1655.]

.723 **Age of Stjernhjelm.** 1640–1740.

[Isak Börk –1701.]

.725 **Age of Gustavus.** 1780–1800.

[.1, Karl Israel Hallman 1732–1800; .2, Gustaf III. (King) 1746–1792; .3, Olof Kexél 1748–1796; .4, Karl Envallsson 1756–1806.]

.726 **Modern Period.** 1800–

[.1, Johan Börjesson 1790–1866; .2, Bernhard von Beskow 1796–1868; .3, August Teodor Blanche 1811–1868; .4, Johan Kristofer Jolin 1818–; .5, Frans Hedberg 1828–; .6, Per Johan Edvard Bäckström 1841–.]

839.73 Swedish Fiction.

.734 **Age of Dalin.** 1740–1780.

[.1, Jakob Henrik Mörk 1714–1763; .2, Jakob Vallenberg 1746–1778.]

.736 **Modern Period.** 1800–

[.1, Sofia Margareta von Knorring 1797–1848; .2, Magnus Jakob Crusenstolpe 1795–1865; .3, **Fredrika Bremer** 1801–1865; .4, Karl Anton Wetterberg (Onkel Adam) 1804–; .5, Emilie Carlén 1807–; .6, Zakris Topelius 1818–; .7, Viktor Rydberg 1829–; .9, Minor Writers.]

839.74 Swedish Essays.

.746 **Modern Period.** 1800–

[.1, Benjamin Karl Henrik Höijer 1767–1812; .2, Lorenzo Hammarsköld 1785–1827; .3, Bernhard Elis Malmström 1816–1865; .4, Karl Julius Lénström 1811–; .5, Gustaf Håkan Jordan Ljunggren 1825–; .6, Karl Rupert Nyblom 1832–.]

839.77 Satire and Humor.

.776 **Modern Period.** 1800–

[.1, Johan Anders Wadmar 1777–1837; .2, Erik Sjöberg (Vitalis) 1794–1828; .3, Kristian Erik Fahlcrantz 1790–1866; .4, Vilhelm August Detlof von Braun 1813–1860; .5, Gunnar Wennerberg 1817–.]

839.78 Swedish Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.781 **Middle Ages.** 1200–1520.

[Canon Mattias, *Bible Translation*, –1350; Peder Månsson, *Encyclopedia*, –1534.]

.782 **Reformation.** 1520–1640.

[.1, Peder Andersson Svart, *History*, –1562; .2, Erik Göransson Tegel, *History*, 1580–1636; .3, Ægidius Girs, *History*, 1580–1639; .4, Gustavus Adolphus (King), *History*, 1594–1632.]

.783 **Age of Stjernhjelm.** 1640–1740.

[.1, Olof Rudbeck, *Medicine*, 1630–1702; .2, Urban Hjärne 1641–1724; .3, Johan Peringskjöld, *History*, 1654–1720; .4, Anders Rydelius, *Philosophy*, 1671–1738; .5, Anders Celsius, *Astronomy*, 1701–1744; .6, Emanuel Svedenborg, *Theology*, 1688–1772.]

.784 **Age of Dalin.** 1740–1780.

[.1, Karl Gustaf Tessin, *History*, 1695–1770; .2, Karl von Linné, *Botany*, 1707–1778; .3, Johan Ihre, *Philology*, 1707–1780; .4, Sven Lagerbring, *History*, 1707–1787; .5, Anders Johan von Höpken, *History*, 1712–1789; .6, Olof Celsius, *History*, 1716–1794; .7, Anders af Botin, *History*, 1724–1790; .8, Torbern Olof Bergman, *Chemistry*, 1735–1784; Karl Vilhelm Scheele, *Chemistry*, 1742–1786.]

.786 **Modern Period.** 1800–

[.1, Erik Gustaf Geiger, *History*, 1783–1847; .2, Anders Magnus Strinnholm, *History*, 1786–1862; .3, Anders Fryxell, *History*, 1795–1881; .4, Frederik Ferdinand Carlson, *History*, 1811–.]

839.8 Danish and Norwegian Literature.

.81 Danish and Norwegian Poetry.

.811 **Middle Ages.** 1100–1500.

[.1, Anders Sunesen; .2, Ballads (Kjæmpeviser).]

.812 **Reformation.** 1500–1560.

[Hans Tavsen 1494–1561.]

.813 **Learned Period.** 1560–1700.

[.1, Anders Arrebo 1587–1637; .2, Anders Bording 1619–1677; .3, Peder Syv 1631–1702; .4, Thomas Kingo 1634–1703; .5, Peder Dass 1647–1708; .6, Dorthe Engelbrektsdatter 1635–1716; .7, Sören Ter Kelsen 1661; .8, Jacob Vorm 1642–1693.]

.814 **Age of Holberg.** 1700–1750.

[.1, Jörgen Sorterup 1662–1723; .2, Töger Reenberg 1656–1742; .3, Kristian Falster 1690–1752; .4, Hans Adolph Brorson 1694–1764; .5, Ambrosius Stub 1705–1758 .6, Kristian Frederik Wadskjær 1712–1779.]

839.815 **Period of Enlightenment.** 1750-1800.

[.1, Kristian Braunmann Tullin 1728-1765; .2, **Johannes Evald** 1743-1781; .3, Johan Herman Vessel 1742-1785; .4, Edvard Storm 1749-1794; .5, Kristen Henriksen Pram 1756-1821; .6, Jens Baggesen 1764-1826; .7, Knud Lyne Rahbek 1670-1830; .8, Malte Konrad Bruun 1775-1826; .9, Minor Writers.]

.816 **Modern Period.** 1800-

[.1, **Adam Gottlob Oehlenschläger** 1779-1850; .2, Bernhard Severin Ingemann 1789-1862; .3, Nicolai Frederik Severin Grundtvig 1783-1872; .4, Johannes Carsten Hauch 1790-1871; .5, Henrik Wergeland 1808-1845; .6, Ludvig Bödtcher 1793-1874; .7, Frederik Paludan-Müller 1809-1876; .8, Carl Ploug 1813-; .9, Minor Writers.

839.82 Danish and Norwegian Drama.

.823 **Learned Period.** 1560-1700.

[.1, Hieronimus Justesen Rauch 1539-1607; .2, Hans Kristensen Sthen 1544-1603; .3, Peder Jensen Hegelund 1542-1614; .4, Hans Thomsen Stege; .5, Jens Lönberg 1663-1700.]

.824 **Age of Holberg.** 1700-1750.

[.1, **Ludvig Holberg** 1684-1754.]

.825 **Period of Enlightenment.** 1750-1800.

[.1, Charlotte Dorothea Biehl 1731-1788; .2, Johan Nordal Bruun 1745-1816; .3, Ole Johan Samsöe 1759-1796; .4, Enevold Falsen 1755-1808; .5, Thomas Thaarup 1749-1821; .6, Kristian Levin Sander 1756-1819; .7, Olaf Kristian Olufsen 1764-1827; .8, Peter Andreas Heiberg 1758-1841; .9, Minor Writers.]

.826 **Modern Period.** 1800-

[.1, Caspar Johannes Boye 1791-1853; .2, Johan Ludvig Heiberg 1791-1860; .3, Henrik Hertz 1798-1870; .4, Thomas Overskou 1798-1873; .5, Christian Knud Frederik Molbech 1821-; .6, Henrik Ibsen 1828-.]

839.83 Danish and Norwegian Fiction.

.836 **Modern Period.** 1800-

[.1, Thomasine Christine Gyllembourg-Ehrensvärd 1773-1856; .2, Steen Steensen Blicher 1782-1848; .3, Christian Winther 1796-1876; .4, **Hans Christian Andersen** 1805-1875; .5, Meyer Aaron Goldschmidt 1819-; .6, Holger Drachmann; .7, **Björnstjerne Björnson** 1832-.]

839.84 Danish and Norwegian Essays.

.845 **Period of Enlightenment.** 1750-1800.

[Rasmus Nyerup 1759-1829.]

.846 **Modern Period.** 1800-

[.1, Niels Mathias Petersen 1781-1862; .2, Sören Aaby Kjérkegaard 1813-1855; .3, Rudolph Keyser 1803-1864; .4, Peter Andreas Munch 1810-1863; .5, Johan Sebastian Cammermeyer Welhaven 1807-1873; .6, Georg Brandes 1842-.]

839.87 Danish and Norwegian Satire and Humor.

.875 **Period of Enlightenment.** 1750-1800.

[.1, Peder Magnus Trojel 1743-1796; .2, Peder Koford Trojel 1754-1784; .3, Thomas Kristoffer Bruun 1750-1834.]

839.88 Danish and Norwegian Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

881 **Middle Ages.** 1100-1500.

[.1, Saxo (Longus) Grammaticus, *History*, -1208; .2, Svend Aagesen, *History*.]

.882 **Reformation.** 1500-1560.

[.1, Kristiern Pedersen, "*The Father of Danish Literature*," 1480-1554; .2, Povel Eliesen, *Sermons*, 1480-; .3, Hans Mikkelsen, *Bible Translation*, -1532; .4, Peder Plade (Palladius) 1503-1560; .5, Henrik Smith, *Medicine*, -1563.]

.883 **Learned Period.** 1560-1700.

[**History**: Hans Svaning 1508-1584; Anders Sörensen Vedel 1542-1616; Peder Klausen 1545-1614; Arild Hvitfeld 1549-1609; Klaus Lyskander 1558-1623; Ole Worm 1588-1654; Peder Resen 1625-1688.]

[**Theology**: Niels Hemmingsen 1513-1600; Holger Rosenkranz 1574-1642; Jesper Brochmand 1585-1652.]

[**Science**: Tyge Brahe, *Astronomy*, 1546-1601; Kaspar Bartholin, *Medicine*, 1585-1629; Thomas Bartholin, *Anatomy*, 1616-1680; Ole Borch, *Medicine*, 1626-1690; Niels Stensen, *Anatomy*, 1638-1686; Ole Römer, *Astronomy*, 1644-1710.]

.884 **Age of Holberg.** 1700-1750.

[.1, Erik Pontoppidan, *History*, 1698-1764; .2, Jacob Langebek, *History*, 1710-1775; .3, Frederik Kristian Eilschov, , 1725-1750; .4, Gerhard Schöning, *History*, 1722-1780; .5, Peder Frederik Suhm, *History*, 1728-1798.]

.9 Gothic.

840 French Literature.

840.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on French Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

841 French Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of French Poetry.

.1 Early French, 842-1400.

.11 **"Chanson de Roland."** "Chanson de Geste."

.12 Wace, Robert.

.13 Marie de France.

.14 Chrestien de Troyes -1191.

.15 Quesnes de Bethune -1228.

.16 Thibaut 4th, comte de Champagne 1201-1253.

.17 Rutebeuf 1230-

.18 **"Roman de la Rose."**

Guillaume de Loris, 1195-1260. Jean de Meung, 1280-1320.

.19 Minor Poets.

.2 Transition Period, 1400-1500.

.21 Chartier, Alain 1386-1458.

.22 Orléans, Charles duc d' 1391-1465.

.23 Coquillart, Guillaume 1421-1510.

.24 Baude, Henri 1430-1495.

.25 Villon, François 1431-1485.

.26

.27

.28

.29 Minor Poets.

.3 Renaissance, 1500-1600.

.31 Daurat, Jean 1510-1588.

.32 Du Bellay, Joachim 1524-1560.

.33 Belleau, Remy 1528-1577.

.34 Ronsard, Pierre de 1524-1585.

.35 Thiard, Pontus de 1521-1605.

.36 Baïf, Jean Antoine de 1532-1589.

.37 Saluste du Bartas, Guillaume de 1544-1590.

.38 Desportes, Philippe 1546-1606.

.39 Minor Poets.

.4 Classical Period, 1600-1715.

.41 Malherbe, François de 1555-1628.

.42 Maynard, François 1582-1646.

.43 Racan, Honorat de Bueil, marquis de 1589-1670.

.44 Chapelain, Jean 1595-1674.

.45 **La Fontaine, Jean de** 1621-1695.

.46 Deshoulières, Antoinette (du Ligier de la Garde), Madame 1637-1694.

.47 Chaulieu, Guillaume Amfrye de 1639-1720.

.48

.49 Minor Poets.

841.5 **18th Century, 1715–1789.**

.51 Rousseau, Jean Baptiste 1670–1741.
.52 Racine, Louis 1692–1763.
.53 Pompignan, Jean Jacques de Franc, marquis de 1709–1784.
.54 Delille, Jacques 1738–1813.
.55 Roucher, Jean Antoine 1745–1794.
.56 Chénier, André Marie de 1762–1794.
.57 Parny, Evariste Désiré Desforges, vicomte de 1753–1814.
.58
.59 Minor Poets.

.6 **Revolution and Empire, 1789–1815.**

.61 Lebrun, Ponce Denis Écouchard 1729–1807.
.62 Fontanes, Louis, marquis de 1757–1821.
.63 Parseval Grandmaison, François Auguste 1759–1834.
.64 Luce de Lancival, Jean Charles Julien 1764–1810.
.65 Désaugiers, Marc Antoine Madeleine 1772–1827.
.66 Campenon, François Nicolas Vincent 1772–1843.
.67 Millevoye, Charles Hubert 1782–1816.
.68
.69 Minor Poets.

.7 **Constitutional Monarchy, 1815–1848.**

.71 **Béranger, Pierre Jean de** 1780–1857.
.72 Delavigne, Jean François Casimir 1793–1843. See 842.72.
.73 Deschamps, Émile 1791–1871.
.74 Lamartine, Alphonse Marie Louis de Prat de 1792–1869.
.75 Reboul, Jean 1796–1864.
.76 Vigny, Alfred Victor, comte de 1799–1863. See 842.75.
.77 Musset, Louis Charles Alfred de 1810–1857. See 842.76.
.78 **Hugo, Victor Marie, comte** 1802–1885. See 842.78 and 843.78.
.79 Minor Poets.

.8 **Later 19th Century, 1848–**

.81 Laprade, Pierre Marin Victor Richard de 1812–1883.
.82 Dupont, Pierre 1821–1870.
.83 Banville, Theodore Faullain de 1820–
.84 Sully-Prudhomme, René François Armand 1839–
.85 Coppée, Francis Édouard Joachim 1842– See 842.88.
.86 Deroulède, Paul 1846–
.87
.88
.89 Minor Poets.

842 French Drama.

.1 **Early French, 842–1400.**

.11 Mysteries and Miracles.
.12 Adam de la Halle 1240–1286.
.13 Bodel, Jean.
.14
.15
.16
.17
.18
.19 Minor Dramatists.

842.2 **Transition Period, 1400–1500.**

.21 Gresban, Arnoul.
.22 Michel, Jean –1493.
.23 Gringoire, Pierre 1480–1544.
.24
.25
.26
.27
.28
.29 Minor Dramatists.

.3 **Renaissance, 1500–1600.**

.31 Le Coq, Thomas.
.32 Baïf, Lazare de.
.33 La Peruse, Jean Bastier de 1530–1555.
.34 Jodelle, Étienne 1532–1573.
.35 Grévin, Jacques 1538–1570.
.36 La Taille, Jean de 1540–1608.
.37 Garnier, Robert 1545–1601.
.38 Larivey, Pierre de 1550–1612.
.39 Minor Dramatists.

.4 **Classical Period, 1600–1715.**

.41 **Corneille, Pierre** 1606–1684.
.42 **Molière, Jean Baptiste Poquelin,** *called* 1622–1673.
.43 Corneille, Thomas 1625–1709.
.44 Boursault, Edme 1638–1701.
.45 **Racine, Jean** 1639–1699.
.46 Brueys, David Augustin de 1640–1723.
.47 Dufresny, Charles Rivière 1648–1724.
.48 Baron, Michel Boyron, *called* 1653–1729.
.49 Minor Dramatists.

.5 **18th Century, 1715–1789.**

.51 La Motte, Antoine Houdart de 1672–1731.
.52 Crebillon, Prosper Jolyot de 1674–1762.
.53 Destouches, Philippe Nericault 1680–1754.
.54 Marivaux, Pierre Carlet de Chamblain de 1688–1763. See 843.52.
.55 Piron, Alexis 1689–1773.
.56 **Voltaire, François Marie Arouet de** 1694–1778. See 843.54.
.57 Sédaine, Michel Jean 1719–1797.
.58 Beaumarchais, Pierre Augustin Caron de 1732–1799.
.59 Minor Dramatists.

.6 **Revolution and Empire, 1789–1815.**

.61 Ducis, Jean François 1733–1816.
.62 Collin-Harleville, Jean François 1735–1806.
.63 La Harpe, Jean François de 1739–1803. See 844.61.
.64 Fabre d'Églantine, Philippe François Nazaire 1755–1794.
.65 Andrieux, François Guillaume Jean Stanislas 1759–1833.
.66 Chenier, Marie Joseph 1764–1811.
.67 Picard, Louis Benoît 1769–1828.
.68 Lemercier, Louis Jean Népomucène 1771–1840.
.69 Minor Dramatists.

842.7 **Constitutional Monarchy, 1815–1848.**

.71	Soumet, Alexandre	1788–1845.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 841.72.
.73	Scribe, Augustin Eugène	1791–1861.	
.74	Ancelot, Jacques Arsène François Polycarpe	1794–1864.	
.75	Vigny, Alfred Victor, comte de	1799–1863.	See 841.76.
.76	Musset, Louis Charles Alfred de	1810–1857.	See 841.77.
.77	**Dumas, Alexandre, the elder**	1806–1870.	See 843.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 843.78.
.79	Minor Dramatists.		

.8 **Later 19th Century, 1848–**

.81	Labiche, Eugène Marin	1815–	
.82	Ponsard, François	1824–1867.	
.83	Augier, Guillaume Victor Émile	1822–	
.84	Dumas, Alexandre, fils	1824–	
.85	Bornier, Henri de	1825–	
.86	Sardou, Victorien	1831–	
.87	Pailleron, Édouard	1834–	
.88	Coppée, Francis Édouard Joachim	1842–	See 841.85.
.89	Minor Dramatists.		

843 French Fiction.

.2 **Transition Period, 1400–1500.**

.21	Christine de Pisan	1363–1431.
.22	Jean de Tuim.	
.23	La Sale, Antoine de	1398–1462.
.24	Chastelain, Georges	1403–1475.
.25		
.26		
.27		
.28		
.29	Minor Writers.	

.3 **Renaissance, 1500–1600.**

.31	Marguerite de Navarre	1492–1549.
.32	Desperriers, Bonaventure	1500–1544.
.33	Herberay, Nicolas d'	–1552.
.34	Du Fail, Noël	–1585.
.35	Bouchet, Guillaume	1526–1606.
.36	Beroalde de Verville, François	1558–1612.
.37		
.38		
.39	Minor Writers.	

.4 **Classical Period, 1600–1715.**

.41	Urfé, Honoré d'	1568–1625.
.42	Gomberville, Marin Le Roy de	1600–1647.
.43	La Calprenède, Gauthier de Costes de	1602–1663.
.44	Scudéry, Georges de	1601–1667.
.45	Scudéry, Madeleine de	1607–1701.
.46	Cyrano de Bergerac, Savinien	1620–1655.
.47	Perrault, Charles	1628–1703.
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de	1634–1693.
.49	Minor Writers.	

843.5 **18th Century, 1715–1789.**

.51	Le Sage, Alain René	1668–1747.	
.52	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 842.54.
.53	Prevost d'Exiles, Antoine François	1697–1763.	
.54	**Voltaire, François Marie Arouet de**	1694–1778.	See 842.56.
.55	Crébillon, Claude Prosper Jolyot de, fils	1707–1777.	
.56	**Rousseau, Jean Jacques**	1712–1778.	
.57	Restif de la Bretonne, Nicolas Edme	1734–1806.	
.58	Florian, Jean Pierre Claris de	1755–1794.	
.59	Minor Writers.		

.6 **Revolution and Empire, 1789–1815.**

.61	St. Pierre, Jacques Henri Bernardin de	1737–1814.
.62	**Staël Holstein, Anne Louise Germaine (Necker), baronne de**	1766–1817.
.63	Constant de Rebecque, Henri Benjamin	1767–1830.
.64	Maistre, Xavier de	1763–1852.
.65	Chateaubriand, François Auguste René, vicomte de	1768–1848.
.66		
.67		
.68		
.69	Minor Writers.	

.7 **Constitutional Monarchy, 1815–1848.**

.71	Beyle, Marie Henri [de Stendhal]	1783–1842.	
.72	Nodier, Charles	1790–1844.	
.73	**Balzac, Honoré de**	1799–1850.	
.74	Sue, Marie Joseph, *called* Eugène	1804–1857.	
.75	Souvestre, Émile	1806–1854.	
.76	**Dumas, Alexandre, the elder**	1806–1870.	See 842.77.
.77	Gautier, Theophile	1811–1872.	
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 842.78.
.79	Minor Writers.		

.8 **Later 19th Century, 1848–**

.81	Mérimée, Prosper	1803–1870.
.82	**Dudevant, Amantine Lucile Aurore Dupin [George Sand]**	1804–1876.
.83	Feuillet, Octave	1812–
.84	Flaubert, Gustave	1821–1881.
.85	Erckmann-Chatrian { Erckmann, Émile / Chatrian, Alexandre	1822– / 1826–
.86	About, Edmond François Valentin	1828–1885
.87	Cherbuliez, Victor	1832–
.88	Daudet, Alphonse	1840–
.89	Minor Writers.	

844 French Essays.

.3 **Renaissance, 1500–1600.**

.31	**Montaigne, Michel Eyquem de**	1533–1592.

.4 **Classical Period, 1600–1715.**

.41	Du Vair, Guillaume	1556–1621.
.42	Saint-Évremond, Charles de Marguetel de Saint-denis de	1613–1703.

844.5 **18th Century, 1715–1789.**

.51 Fontenelle, Bernard le Bovier de 1657–1757.
.52 Montesquieu, Charles le Secondat, baron de 1689–1755.
.53 Alembert, Jean le Rond d' 1717–1783.

.6 **Revolution and Empire, 1789–1815.**

.61 La Harpe, Jean François de 1739–1803. See 842.63
.62 Joubert, Joseph 1754–1824.
.63 Courier de Méré, Paul Louis 1772–1825.
.64 Senancour, Étienne Pivert de 1770–1846.

.7 **Constitutional Monarchy, 1815–1848.**

.71 La Mennais, Hugues Félicité Robert de 1782–1854.
.72 Villemain, Abel François 1790–1870.
.73 Planche, Jean Baptiste Gustave 1808–1857.
.74 **Sainte Beuve, Charles Augustin** 1804–1869.
.75 Saint-Marc Girardin 1801–1873.
.76 Janin, Jules Gabriel 1804–1874.
.77 Nisard, Jean Marie Napoléon Désiré 1806–

.8 **Later 19th Century, 1848–**

.81 Quinet, Edgar 1803–1875.
.82 Renan, Ernest 1823–
.83 Taine, Hippolyte Adolphe 1828–

845 French Oratory.

Subdivided by periods, like 841.

846 French Letters.

Subdivided by periods, like 841.

847 French Satire and Humor.

.1 **Early French, 842–1400.**

.11 Guyot de Provins.
.12 "Roman du Renard." See 837.31 and 839.371.
.13 Deschamps, Eustache 1320–1400.

.3 **Renaissance, 1500–1600.**

.31 Marot, Clement 1495–1544.
.32 **Rabelais, François** 1495–1553.
.33 "La Satyre Ménippée" 1594.
.34 Aubigné, Théodore Agrippa d' 1550–1630.
.35 Regnier, Mathurin 1573–1613.

.4 **Classical Period, 1600–1715.**

.41 Viau, Théophile de 1590–1626.
.42 Saint Amant, Marc Antoine Gérard 1594–1661.
.43 Scarron, Paul 1610–1660.
.44 Benserade, Isaac de 1612–1691.
.45 Furetière, Antoine 1620–1688.
.46 **Boileau Despréaux, Nicolas** 1636–1711.
.47 Regnard, Jean François 1655–1709.

.5 **18th Century, 1715–1789.**

.51 Gresset, Jean Baptiste Louis 1709–1777.
.52 Gilbert, Nicolas Joseph Laurent 1751–1780.

.7 **Constitutional Monarchy, 1815–1848.**

.71 Barthélemy, August Marseille 1796–1867.
.72 Barbier, Henri Auguste 1805–1882.

848 French Miscellany.

Subdivided by periods, like 841.

849 Provençal Literature.

.1 **Provençal poetry.**

.11 1st Period. 900–1100.
Poetry in hands of clergy. No folk poetry preserved. Form mainly epic. Language not yet fixed. Country under rule of counts, nominally subject to Emperor, really independent till 1486, then reunited to France.

.111 Epic Poetry.
Boethius.

.112 Lyric Poetry.
.119 Minor poetry. Didactic.

.12 Golden Age. 1100–1300.
Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most important.

.121 Romances of Chivalry.
Girart de Rossilho.

.122 Historical Poetry.
Croisade contre les Albigeois.

.123 Romans d'Aventures.
Flamenca.

.124 Lyric Poetry.
.125 Bernart de Ventadorn flourished about 1140–1195.
.126 Born, Bertran de " " 1180–1195.
.127 Arnaut Daniel " " 1180–1200.
.128 Borneill, Guiraut de, " " 1175–1220.
.129 Minor poetry.
Nearly 500 poets named beside anonymous poems. Form prevails over content: great variety of poetic forms. These lyric poets are the real Troubadours.

.13 Aftermath 1300–1500.
Downfall of language and literature owing to lack of content and to political and social causes, especially the Crusade against the Albigenses.

.131 Poets of school of Toulouse.
Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial—a craft Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, Chancellor of "Consistory de la gaya sciensa" established at Toulouse 1324. First prize a golden violet. When in danger of perishing, Consistory revived in 1484 and poetic exercises styled "Jeux Floraux."

.132 La Noble Leyczon.
Religious poetry of Waldenses.

.139 Minor poetry.

.14 Decadence. 1500–
Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852.

.141 Goudouli, Pierre de 1579–1649.
.142 Despourrins, Cyprien 1698–1755.
.143 Jasmin, Jacques 1798–1864.
.144 Roumanille, Joseph 1818–
.145 Aubanel, Jos. Marie J. Baptiste Theodore 1829–
.146 Mistral, Frederic 1830–
.149 Minor poetry.

INTENTIONAL SECOND EXPOSURE

844.5 **18th Century, 1715–1789.**

.51 Fontenelle, Bernard le Bovier de 1657–1757.
.52 Montesquieu, Charles le Secondat, baron de 1689–1755.
.53 Alembert, Jean le Rond d' 1717–1783.

.6 **Revolution and Empire, 1789–1815.**

.61 La Harpe, Jean François de 1739–1803. See 842.63.
.62 Joubert, Joseph 1754–1824.
.63 Courier de Méré, Paul Louis 1772–1825.
.64 Senancour, Étienne Pivert de 1770–1846.

.7 **Constitutional Monarchy, 1815–1848.**

.71 La Mennais, Hugues Félicité Robert de 1782–1854.
.72 Villemain, Abel François 1790–1870.
.73 Planche, Jean Baptiste Gustave 1808–1857.
.74 **Sainte Beuve, Charles Augustin** 1804–1869.
.75 Saint-Marc Girardin 1801–1873.
.76 Janin, Jules Gabriel 1804–1874.
.77 Nisard, Jean Marie Napoléon Désiré 1806–

.8 **Later 19th Century, 1848–**

.81 Quinet, Edgar 1803–1875.
.82 Renan, Ernest 1823–
.83 Taine, Hippolyte Adolphe 1828–

845 French Oratory. Subdivided by periods, like 841.

846 French Letters. Subdivided by periods, like 841.

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.32 **Rabelais, François** 1495–1553.
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.34 Aubigné, Théodore Agrippa d' 1550–1630.
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.44 Benserade, Isaac de 1612–1691.
.45 Furetière, Antoine 1620–1688.
.46 **Boileau Despréaux, Nicolas** 1636–1711.
.47 Regnard, Jean François 1655–1709.

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848 French Miscellany. Subdivided by periods, like 841.

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.125 Bernart de Ventadorn flourished about 1140–1195.
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.143 Jasmin, Jacques 1798–1864.
.144 Roumanille, Joseph 1818–
.145 Aubanel, Jos. Marie J. Baptiste Theodore 1829–
.146 Mistral, Frederic 1830–
.149 Minor poetry.

849.9 Catalan Literature.

.91 Catalan poetry.

.911 1st Period 1200–1350.

Catalonia before 1137 ruled by French Counts, then united to Aragon. Language is closely allied to Provençal, in which first poets wrote. MSS. scattered; few as yet printed; Literature begins with James 1st (1213–'76) who made Catalan the state language.

For Ramon Muntaner see 849.981.3.

.1, Raimon Lull 1225–1315; .2, Febler 1250; .9, Minor poets.

.912 Second Period. 1350–1450.

Imitation of Neo Provençal, French and Italian, specially of Dante, Petrarch and Boccacio. Some flashes of originality. Fra Rocaberti. Imitation of Dante.

.913 Age of Perfection 1450–

From 16th Century, Catalan literature merged in Spanish, tho some writers stil employ idiom, e. g. "Balaguer."

.1, March, Ausias –1460, greatest of Catalan poets; .2, Fenollar, Bernard; .3, Jacme Roig (satiric); .4, Farrer; .5, Serafi; .6, Pujol; .7, Garcia; .9, Minor poets.

.93 Catalan Fiction.

.933 Age of Perfection 1450–

Joanet Martorel –1460. Tirant lo Blanch, a chivalric romance.

.98 Miscellany.

.981 1st Period. 1200–1350.

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner.

.1, James 1st (The Conqueror) 1213–'76; .2, Desclot, Bernardo; .3, Muntaner, Ramon 1265-1340: .4, Ximenes; .9, Minor authors.

.982 Second period. 1350–1450.

Prose resists foreign influences better than poetry. Many philosophical and theological writings beside historical works.

.1, Tomich; .2, Turell; .9, Minor writers.

850 Italian Literature.

850.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on Italian Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

851 Italian Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Italian Poetry.

.1 Early Italian; Age of Dante, –1375

To death of Boccaccio, 1375.

.11	Protonotario, Stefano	–1250.
.12	Arezzo, Guittone d'	–1294.
.13	Guinicelli, Guido	–1276.
.14	Cavalcanti, Guido	1260–1300.
.15	**Alighieri, Dante**	1265–1321.
.16	Pistoia, Cino da	1270–1336.
.17	Uberti, Fazio degli	–1369.
.18	**Petrarca, Francesco**	1304–1374.
.19	Minor Poets.	

.2 Period of Classical Learning, 1375–1492.

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492.

.21	Frezzi, Federigo	–1416.
.22	Bojardo, Matteo	1430–1494.
.23	**Medici, Lorenzo dei** (Il Magnifico)	1448–1492.
.24	**Poliziano, Angelo**	1454–1494. See 852.22.
.25	Berivieni, Girolamo	1453–1542.
.26	Sannazzaro, Jacopo	1458–1530.
.29	Minor Poets.	

.3 Age of Leo the Tenth, 1492–1542.

From death of Lorenzo il Magnifico, 1492, to Convocation of Council of Trent, 1542

.31	Bembo, Pietro	1470–1547.
.32	**Ariosto, Lodovico**	1474–1533.
.33	Rucellai, Giovanni	1475–1526.
.34	Molza, Francesco	1483–1544. See 853.33.
.35	Tasso, Bernardo	1493–1569.
.36	Alamanni, Luigi	1495–1556.
.37	Guidiccioni, Giovanni	1500–1541.
.38	Casa, Giovanni della	1503–1556.
.39	Minor Poets.	

4. Later 16th Century, 1542–1585.

From Convocation of Council of Trent, 1542, to Pontificate of Sixtus V., 1585.

.41	Costanzo, Angelo di	1507–1591.
.42	Rota, Bernardino	1509–1575.
.43	Tansillo, Luigi	1510–1568.
.44	Magno, Celio	1536–1602.
.45	Guarini, Giovambattista	1537–1612.
.46	**Tasso, Torquato**	1544–1595.
.47	Baldi, Bernardino	1553–1617.
.49	Minor Poets.	

INTENTIONAL SECOND EXPOSURE

849.9 Catalan Literature.

.91 Catalan poetry.

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.912 Second Period. 1350–1450.

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.93 Catalan Fiction.

.933 Age of Perfection 1450–

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.98 Miscellany.

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.982 Second period. 1350–1450.

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.1, Tomich; .2, Turell; .9, Minor writers.

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851 Italian Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Italian Poetry.

.1 Early Italian; Age of Dante, –1375

To death of Boccaccio, 1375.

.11	Protonotario, Stefano	–1250.
.12	Arezzo, Guittone d'	–1294.
.13	Guinicelli, Guido	–1276.
.14	Cavalcanti, Guido	1260–1300.
.15	**Alighieri, Dante**	1265–1321.
.16	Pistoia, Cino da	1270–1336.
.17	Uberti, Fazio degli	–1369.
.18	**Petrarca, Francesco**	1304–1374.
.19	Minor Poets.	

.2 Period of Classical Learning, 1375–1492.

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492.

.21	Frezzi, Federigo	–1416.
.22	Bojardo, Matteo	1430–1494.
.23	**Medici, Lorenzo dei** (Il Magnifico)	1448–1492.
.24	**Poliziano, Angelo**	1454–1494. See 852.22.
.25	Benivieni, Girolamo	1453–1542.
.26	Sannazzaro, Jacopo	1458–1530.
.29	Minor Poets.	

.3 Age of Leo the Tenth, 1492–1542.

From death of Lorenzo il Magnifico, 1492, to Convocation of Council of Trent, 1542

.31	Bembo, Pietro	1470–1547.
.32	**Ariosto, Lodovico**	1474–1533.
.33	Rucellai, Giovanni	1475–1526.
.34	Molza, Francesco	1483–1544. See 853.33.
.35	Tasso, Bernardo	1493–1569.
.36	Alamanni, Luigi	1495–1556.
.37	Guidiccioni, Giovanni	1500–1541.
.38	Casa, Giovanni della	1503–1556.
.39	Minor Poets.	

4. Later 16th Century, 1542–1585.

From Convocation of Council of Trent, 1542, to Pontificate of Sixtus V., 1585.

.41	Costanzo, Angelo di	1507–1591.
.42	Rota, Bernardino	1509–1575.
.43	Tansillo, Luigi	1510–1568.
.44	Magno, Celio	1536–1602.
.45	Guarini, Giovambattista	1537–1612.
.46	**Tasso, Torquato**	1544–1595.
.47	Baldi, Bernardino	1553–1617.
.49	Minor Poets.	

851.5 **Period of Decline, 1585–1748.**

From Pontificate of Sixtus V., 1585–90, to Peace of Aix-la-Chapelle, 1748.

.51	Chiabrera, Gabriello	1552–1637.
.52	Marini, Giovambattista	1569–1625.
.53	Testi, Fulvio	1593–1646.
.54	Filicaja, Vincenzo	1642–1707.
.55	Guidi, Alessandro	1650–1712.
.56	Manfredi, Eustachio	1674–1738.
.57	Frugoni, Carlo Innocenzo	1692–1768.
.58	Algarotti, Francesco	1712–1764.
.59	Minor Poets.	

.6 **Period of Renovation, 1748–1814.**

From Peace of Aix-la-Chapelle, 1748, to Congress of Vienna, 1814.

.61	Paradisi, Agostino	1736–1783.
.62	Mascheroni, Lorenzo	1750–1800.
.63	Pindemonte, Ippolito	1753–1828.
.64	Monti, Vincenzo	1754–1828.
.65	Cassi, Francesco	1778–1846.
.66	Foscolo, Ugo	1779–1827.
.67	Arici, Cesare	1782–1836.
.68	Sestini, Bartolommeo	1792–1822.
.69	Minor Poets.	

.7 **Early 19th Century, 1814–1859.**

From Congress of Vienna, 1814, to War of Independence, 1859.

.71	Berchet, Giovanni	1783–1851.
.72	Rossetti, Gabriello	1783–1854.
.73	Manzoni, Aiessandro	1785–1873. See 853.72.
.74	Marchetti, Giovanni	1790–1852.
.75	Leopardi, Giacomo	1798–1837.
.76	Carrer, Luigi	1801–1850.
.77	Regaldi, Giuseppe	1809–1883.
.78	Prati, Giovanni	1815–1884.
.79	Minor Poets.	

.8 **Later 19th Century, 1859–**

From War of Independence, 1859, to

.81	Aleardi, Aleardo	1810–1878.
.82	Zanella, Giacomo	1820–
.83	Gnoli, Domenico	1836–
.84	Carducci, Giosuè	1836–
.85	Fogazzaro, Antonio	1842–
.86	Rapisardi, Mario	1843–
.87	Guerrini, Olindo	1845–
.88		
.89	Minor Poets.	

852 Italian Drama.

.1 **Early Italian; Age of Dante, –1375.**

.2 **Period of Classical Learning, 1375–1492.**

.21	Belcari, Feo	1410–1484.
.22	Poliziano, Angelo	1454–1494. See 851.24.
.29	Minor Dramatists.	

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Machiavelli, Niccolò	1469–1527. See 854.31.
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520.
.33	Trissino, Gian Giorgio	1478–1550.
.34	Aretino, Pietro	1492–1556.
.35	Ambra, Francesco d'	–1558.
.39	Minor Dramatists.	

.4 **Later 16th Century, 1542–1585.**

.41	Speroni, Sperone	1500–1588.
.42	Giraldi, G. B. Cinzio	1504–1573. See 853.44.
.43	Cecchi, Giovanni Maria	1517–1587.
.44	Asinari, Federigo	1527–1576.
.45	Porta, Giovambattista della	1538–1615.
.49	Minor Dramatists.	

.5 **Period of Decline, 1585–1748.**

.51	Buonarroti, Michelangiolo, Jr.	1564–1646.
.52	Rinuccini, Ottavio	1565–1622.
.53	Andreini, Giovambattista	1578–1650.
.54	Gigli, Girolamo	1660–1722.
.55	Zeno, Apostolo	1669–1750.
.56	Maffei, Scipione	1675–1755.
.57	Trapassi, Pietro (Metastasio)	1698–1782.
.59	Minor Dramatists.	

.6 **Period of Renovation, 1748–1814.**

For Manzoni, see 851.73 and 853.72.

.61	Goldoni, Carlo	1707–1793.
.62	Gozzi, Carlo	1722–1806.
.63	Capacelli Albergati, Francesco	1728–1804.
.64	Alfieri, Vittorio	1749–1803.
.65	Nota, Alberto	1775–1847.
.66	Biondi, Luigi	1776–1839.
.67	Benedetti, Francesco	1785–1821.
.69	Minor Dramatists.	

.7 **Early 19th Century, 1814–1859.**

.71	Niccolini, Giovambattista	1782–1861.
.72	Pellico, Silvio	1788–1854.
.73	Giacometti, Paolo	1816–1881.
.74	Gherardi del Testa, Tommaso	1818–1892.
.75	Ferrari, Paolo	1822–
.79	Minor Dramatists.	

852.8 **Later 19th Century, 1859–**

.81	Bersezio, Vittorio	1830–	
.82	Cossa, Pietro	1833–1882.	
.83	Carrera, Valentino	1834–	
.84	Marenco, Leopoldo	1836–	
.85	Cavallotti, Felice	1842–	
.86	Torelli, Achille	1844–	
.87			
.88			
.89	Minor Dramatists.		

853 Italian Fiction.

.1 **Early Italian; Age of Dante, –1375.**

.11	"Cento Novelle Antiche" (Gualteruzzi's Collection).		
.12	Barberino, Francesco da	1264–1348.	
.13	Pisa, Guido da	–1350.	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–1375.	
.19	Minor Writers.		

.2 **Period of Classical Learning, 1375–1492.**

.21	Sacchetti, Franco	–1400.	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423–1497.	
.24	Mangabotti, Andrea dei		
.25	Prato, Giovanni da		
.29	Minor Writers.		

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561.	
.33	Molza, Francesco	1483–1544.	See 851.34.
.34	Firenzuola, Agnolo	1493–1548.	
.39	Minor Writers.		

.4 **Later 16th Century, 1542–1585.**

.41	Grazzini, Antonfrancesco (Lasca)	1503–1583.	
.42	Doni, Antonfrancesco	1513–1574.	
.43	Erizzo, Sebastiano	1525–1585.	
.44	Giraldi, G. B. Cinzio	1504–1573.	See 852.42.
.45	Parabosco, Girolamo	–1560.	
.49	Minor Writers.		

.5 **Period of Decline, 1585–1748.**

.6 **Period of Renovation, 1748–1814.**

853.7 **Early 19th Century, 1814–1859.**

.71	Rosini, Giovanni	1776–1855.	
.72	**Manzoni, Alessandro**	1785–1873.	See 851.73.
.73	Grossi, Tommaso	1791–1853.	
.74	Guerrazzi, Francesco Domenico	–1873.	
.75	Bresciani, Antonio	1798–1862.	
.76	Cantù, Cesare	1807–	
.77	Carcano, Giulio	1812–1883.	
.78	Azeglio, Massimo d'	1800–1866.	
.79	Minor Writers.		

.8 **Later 19th Century, 1859–**

.81	Castellazzo, Luigi	1827–	
.82	Barrili, Anton Giulio	1836–	
.83	Capuana, Luigi	1839–	
.84	Verga, Giovanni	1840–	
.85	Faldella, Giovanni	1846–	
.86	Farina, Salvatore	1846–	
.87	Giovagnoli, Raffaello		
.88	Serao, Matilde	1856–	
.89	Minor Writers.		

854 Italian Essays.

.1 **Early Italian; Age of Dante, –1375.**

.11	Cavalca, Fra Domenico	–1342.	
.12	Passavanti, Fra Jacopo	–1357.	

.2 **Period of Classical Learning, 1375–1492.**

.21	Alberti, Leone Battista	1404–1472.	
.22	Palmieri, Matteo	1405–1475.	
.23	Bisticci, Vespasiano da	1421–1498.	
.24	Collenuccio, Pandolfo	–1504.	
.25	Vinci, Leonardo da	1452–1519.	
.29	Minor Essayists.		

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Machiavelli, Niccolò	1469–1527.	See 852.31.
.32	Nardi, Jacopo	1476–1555.	
.33	Castiglione, Baldassare	1478–1529.	
.34	Guicciardini, Francesco	1482–1540.	
.35	Giannotti, Donato	1494–1573.	
.36	Giambullari, Pier Francesco	1495–1555.	
.37	Gelli, Giovambattista	1498–1563.	
.38	Varchi, Benedetto	1503–1566.	
.39	Minor Essayists.		

854.4 **Later 16th Century, 1542–1585.**

.41	Castelvetro, Ludovico	1505–1571.
.42	Piccolomini, Alessandro	1508–1578.
.43	Borghini, Vincenzo	1515–1580.
.44	Davanzati, Bernardo	1529–1606.
.45	Salviati, Leonardo	1540–1589.
.46	Ammirato, Scipione	1531–1601.
.47	Paruta, Paolo	1540–1598.
.48	Botero, Giovanni	1540–1617.
.49	Minor Essayists.	

.5 **Period of Decline, 1585–1748.**

.51	Sarpi, Paolo	1550–1623.
.52	Galilei, Galileo	1564–1642.
.53	Bartoli, Daniele	1608–1685.
.54	Dati, Carlo	1619–1675.
.55	Gravina, Giovanni Vincenzo	1664–1718.
.56	Muratori, Ludovico Antonio	1672–1750.
.57	Giannone, Pietro	1676–1748.
.58	Zanotti, Francesco Maria	1692–1777.
.59	Minor Essayists.	

.6 **Period of Renovation, 1748–1814.**

.61	Bettinelli, Saverio	1718–1808.
.62	Denina, Carlo	1730–1813.
.63	Tiraboschi, Girolamo	1731–1794.
.64	Lanzi, Luigi	1732–1810.
.65	Beccaria, Cesare	1735–1793.
.66	Filangeri, Gaetano	1752–1788.
.67	Cesari, Antonio	1760–1828.
.68	Perticari, Giulio	1779–1822.
.69	Minor Essayists.	

.7 **Early 19th Century, 1814–1859.**

.71	Costa, Paolo	1771–1836.
.72	Giordani, Pietro	1774–1848.
.73	Troya, Carlo	1785–1859.
.74	Balbo, Cesare	1789–1853.
.75	Capponi, Gino	1792–1878.
.76	Mamiani della Rovere, Terenzio	1800–1885.
.77	Gioberti, Vincenzo	1801–1853.
.78	Tommaséo, Niccolò	1802–1874.
.79	Minor Essayists.	

.8 **Later 19th Century, 1859–**

.81	Sanctis, Francesco de	1818–
.82	Bonghi, Ruggiero	1827–
.83	Conti, Augusto	1827–
.84	Villari, Pasquale	1827–
.85	Ardigò, Roberto	1828–
.86	Comparetti, Domenico	1835–
.87	Zumbini, Bonaventura	1840–
.88	Panzacchi, Enrico	1841–
.89	Minor Essayists.	

855 Italian Oratory.

856 Italian Letters.

857 Italian Satire and Humor.

.1 **Early Italian; Age of Dante, –1375.**

.11	Gemignano, Folgore da San	
.12	Chitarra, Cene dalla	
.13	Angiulieri, Cecco	
.14	Pucci, Antonio	–1377.
.19	Minor Writers.	

.2 **Period of Classical Learning, 1375–1492.**

.21	Burchiello, Domenico	1395–1448.
.22	Pulci, Luigi	1432–1484.
.23	Vinciguerra, Antonio	
.29	Minor Writers.	

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Folengo, Teofilo (Merlin Cocai)	1491–1544.
.32	Berni, Francesco	1496–1535.
.39	Minor Writers.	

.4 **Later 16th Century, 1542–1585.**

.41	Nelli, Pietro	
.42	Beccuti, Francesco	1509–1553.
.43	Caporali, Cesare	1531–1601.
.49	Minor Writers.	

.5 **Period of Decline, 1585–1748.**

.51	Tassoni, Alessandro	1565–1635.
.52	Bracciolini, Francesco	1566–1645.
.53	Lalli, Giovambattista	1572–1637.
.54	Lippi, Lorenzo	1606–1664.
.55	Rosa, Salvatore	1615–1673.
.56	Menzini, Benedetto	1646–1704.
.57	Sergardi, Ludovico	1660–1726.
.58	Fortiguerri, Niccolò	1674–1736.
.59	Minor Writers.	

.6 **Period of Renovation, 1748–1814.**

.61	Gozzi, Gasparo	1713–1786.
.62	Passeroni, Gian Carlo	1713–1803.
.63	Casti, Giovambattista	1721–1803.
.64	Parini, Giuseppe	1739–1799.
.65	Baretti, Giuseppe	1716–1789.
.66	Elci, Angelo Maria d'	1754–1824.
.67	Pananti, Filippo	1766–1837.
.69	Minor Writers.	

.7 **Early 19th Century, 1814–1859.**

.71	Giusti, Giuseppe	1809–1850.

858 Italian Miscellany.

.8 **Later 19th Century, 1859–**

.81	Gubernatis, Angelo de	1840–
.82	Amicis, Edmondo de	1846–

859 Wallachian Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

.9 **Rumansh Literature**

Subdivided like 859.

860 Spanish Literature.

860.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

861 Spanish Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Spanish Poetry.

.1 Early Spanish. –1369.

In 711 the Visigothic kingdom, founded in the 5th cent. was overthrown by Arabs; 711–1492 Arabic Period or Age of Reconquest.

Literature began in first half of 12th cent. Earliest poetry, epic; subjects national, themes war and religion (861.11–12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and 14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Through him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 "Primitive Monuments."

.12 **"Poema de mio Cid."**

.13 Berceo, Gonzalo de 1196–1266.

.14 Segura de Astorga, Juan Lorenzo 1250.

.15 Yañez Ruy (Cronica del Rey Alfonso Onceno).

.16 Sem Tob, Rabbí 1350.

.19 Minor Poets.

.2 Age of Imitation. 1369–1516.

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were three distinct schools:

1. Provençal, specially influential at court.
2. Italian (Dante) or Allegorical, introduced by Francisco Imperial, a Genoese. (Mena, 861.22.)
3. Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21).

.21 Lopez de Ayala, Pedro 1332–1407.

.22 Mena, Juan de 1411–1456.

.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458.

.24 Manrique, Jorge 1440–1479.

.25 Los "Cancioneros" } Collections of poetry.

.26 Los "Romances" }

.27 **Romancero del Cid.**

"Romances" popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th cent. Golden Age during reign of Ferdinand aud Isabella, a grand reawakening coming with the fall of Granada, 1492.

.29 Minor Poets.

861 .3 Golden Age. 1516–1700.

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera—16th cent.; Ribera 1588–1656; Zurbaran 1598–1662; **Velazquez** 1599–1660; Cano 1601–1667; **Murillo** 1618–1682, etc.

Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death.

Great number of poets. Nothing notable in Epic; Lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of two schools follows in which the Italian wins the major influence. Thereafter appear two new schools:

1. Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
2. Sicillian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of "bad taste" appear; (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. "Bad taste" consisted in artificialities, exaggerations, obscurities, etc.

.31 Vega, Garcilaso de la 1503–1536.

.32 Castillejo, Cristóbal de 1494–1596.

.33 Leon, Luis Ponce de 1528–1591.

Leon is equally important in prose.

.34 Los Argensolas: Lupercio, 1563–1613; Bartolomé Leonardo 1564–1631.

.35 Herrera, Fernando de 1534–1597.

.36 Mendoza, Diego Hurtado de 1503–1575.

.37 Góngora y Argote, Luis de 1561–1627.

.38 Rioja, Francisco de 1600–1659.

.39 Minor Poets.

.4 18th century. 1700–1800.

At death of Carlos 2nd (1700) war of succession resulted in firm establishment of House of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, "bad taste" every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish Academy, 1714), and doctrinal reform in French sense, proclaimed by Luzan (1702–54) in "La Poetica," etc. Thereafter a kind of revival. Three schools formed:

1. Classic French. Moratin the elder (861.41); Cadalso (861.42); Yrlarte (861.45) and Samaniego (861.44).
2. Antique National, protesting against introduction of French taste. Huerta (861.43).
3. Salamanca School, an attempt to reconcile the first two, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). "Prosaism" production of exaggerated opposition to Gongorism or "bad taste" also characterizes period. Influence of French Encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism.

Rich development of fables and apologues in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty.

.41 Moratin (The elder), Nicolás Fernandez de 1737–1780.

.42 Cadalso, José de 1741–1782.

.43 Huerta, Vicente Antonio García de la 1734–1787.

.44 Samaniego, Félix María de 1745–1801.

.45 Yriarte, Tomás de 1750–1791.

.46 Valdés, Juan Melendez 1754–1817.

.47 Iglesias de la Casa, José 1748–1791.

.48 Cienfuegos, Nicasio Álvarez de 1764–1809.

.49 Minor Poets.

861.5 **19th century.** **1800–**

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) quelled. Isabella driven from throne by revolution 1868; 1871- Amadeo (Savoy house), 1873, abdicates and republic is proclaimed; Restoration of monarchy in person of Alfonso 12th in 1875.

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788-1808) despotism re-introduced and revolution followed. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awaking with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53).

.51 Quintana, Manuel José 1772–1857.
.52 Espronceda, José de 1810–1842.
.53 Zorrilla y Moral, José 1817–
.54 Gutierrez, Antonio García 1812–
.55 Gil y Zárate, Antonio 1792–1861.
.56 Hartzembusch, Juan Eugenio 1806–1880.
.59 Minor Poets.

862 Spanish Drama.

.2 **Age of Imitation.** **1369–1516.**

Evidences of existence of "mysteries" but no remains.

.21 Enzina, Juan del (?)1468–1534.
.22 Vicente, Gil (?)1450–1536.

.3 **Golden Age.** **1516–1700.**

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 "Lope" had written 1500 dramas), 30,000 dramas composed by beginning of 18th cent. At opening of period Church tried to check development of profane drama placing nearly all in the "Index." Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence.

.31 **Vega Carpio, Lope Felix de** 1562–1635.
.32 Cāstro y Bēlvis Guillen de 1567–1621.
.33 Tellez, Gabriel (Tirso de Molina, pseud. (?)1570–1648.
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639.
.35 **Calderon de la Barca, Pedro** 1600–1681.
.36 Rojas y Zorrilla, Francisco de 1607–
.37 Moreto y Cabaña, Agustin 1618–1669.
.39 Minor Dramatists.

.4 **18th Century.** **1700–1800.**

Complete decadence of drama in last years of old monarchy. Revival in 18th cent., following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National School voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of writers, Comella (862.41). Period of unrest; old ideas cannot be reëstablished, new cannot be naturalized.

For Moratin the elder, see 861.41 and Huerta, 861.43.

.41 Comella, Luciano Francisco 1716–1779.
.42 Moratin, Leandro Fernandez de 1760–1828.
.43 Cruz, Ramon de la (Light comedies) 1731–1795.
.49 Minor dramatists.

.5 **19th Century.** **1800–**

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent "romantic" movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56.

.51 Martinez de la Rosa, Francisco 1789–1862.
.52 Rodriguez Rubí, Tomas 1817–
.53 Breton de los Herreros, Manuel 1796–
.59 Minor dramatists.

863 Spanish Fiction.

.2 **Age of Imitation.** **1369–1516.**

Immense vogue of books of chivalry despite legislation till publication of Don Quijote; thereafter only one written. [First part of Quijote printed 1605.]

.21 "Books of Chivalry."
.22 **"Amadis de Gaula."**
.23 "Celestina."

.3 **Golden Age.** **1516–1700.**

Real novel replaces old books of chivalry about 1500. "Picaresca," or "rogue" novel characteristic of this period; a result of the state of society following wars of Charles 1st and Phillip 2d, e. g. Mendoza's "Lazarillo de Tormes." For Mendoza, see 861.36.

.31 Montemayor, Jorge de 1520–1561.
.32 **Cervantes Saavedra, Miguel de** **1547–1616.**
.39 Minor novelists.

.4 **18th Century.** **1700–1800.**

.5 **19th Century.** **1800–**

For Breton de los Herreros, see 862.53; and Rodriguez Rubí, 862.52.

.51 Larra, Mariano José de [Figaro] 1809–1837.
.52 Romanos, Ramon Mesonero de 1803–
.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1871.
.59 Minor writers.

864 Spanish Essays.

865 Spanish Oratory.

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrained. Sacred eloquence less employed by Spanish church than by French or English. Gongorism or "bad taste" conquers here as elsewhere.

.1 **Early Spanish.** **–1369.**

.2 **Age of Imitation.** **1369–1516.**

.3 **Golden Age.** **1516–1700.**

For Luis de Leon, see 861.33; and Luis de Granada, 868.32.

.4 **18th Century.** **1700–1800.**

For Jovellanos, see 868.42; and Valdés, 861.46.

.5 **19th Century.** **1800–**

.51 Olozaga, Salustiano de 1803–1873.
.52 Castelar, Emilio 1832–

866 Spanish Letters.

.3 **Golden Age.** **1516–1700.**

Naturalness of old times changed with majestic court and rigid etiquette of Charles 5th.
For Santa Teresa, see 868.33.

.31 Avila, Juan de 1502–1569.
.32 Perez, Antonio 1540–1611.
.39 Minor writers.

867 Spanish Satire.

.1 **Early Spanish.** –1369.

Ruiz, Juan (Arcipreste de Hita) 1350.

.2 **Age of Imitation.** 1369–1516.

"Coplas de Mingo Revulgo."

.3 **Golden Age.** 1516–1700.

Quevedo Villegas, Francisco Gomez de 1580–1645.

.4 **18th Century.** 1700–1800.

For Cadalso, see 861.42; and Moratin the younger, 862.42.

.41 Jorge Pitillas (a pseudonym).

.42 Isla, José Francisco de (el Padre) 1703–1781.

868 Spanish miscellany.

.1 **Early Spanish.** –1369.

.11 Alfonso X., El Sábio 1221–1284.

.12 Sancho El Bravo (IV. of Castile) 1258–1295.

.13 Manuel, Juan 1282–1347.

.14 Alfonso XI. 1310–1350.

.19 Minor writers.

.2 **Age of Imitations.** 1369–1516.

General and special histories, books of travel, works called forth by Boccacio's "Corvaccio," etc.

.3 **Golden Age.** 1516–1700.

Didactic prose. Considerable development, though less than poetry, owing in a great measure to restraints political and religious. "Bad Taste" manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representatives of Mystic School.

For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3.

.31 Mariana, Juan de, Founder of Spanish History 1536–1623.

.32 Granada, Luis de 1504–1588.

.33 Teresa de Jesús, Santa 1513–1582.

.34 Cruz, San Juan de la 1542–1591.

.35 Rivadeneyra, Pedro de 1527–1611.

.36 Saavedra Fajardo, Diego de 1584–1648.

.39 Minor Writers.

.4 **18th Century.** 1700–1800.

Under Carlos 3d (1759–'88) scientific studies took a fresh start, due largely to Feijóo who attempted intellectual emancipation of Spain. Prose advances under French influence — Gallicisms introduced.

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764.

.42 Jovellanos, Gaspar Melchor de 1744–1811.

.49 Minor writers.

.5 **19th Century.** 1800–

For Hartzembusch, J. E., see 861.56.

.51 Gayangos, Pascual de 1809–

.52 Rios, José Amador de los 1818–1878.

.53 Milá y Fontanals, Manuel 1818–

.59 Minor writers.

869 Portuguese Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

870 Latin Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

.1 **Lucretius Carus, Titus.** See also 187.

.2 **Ovid. (Publius Ovidius Naso.)**

.3 **Hyginus, Caius Julius.**

.4 **Faliscus, Gratius.**

.5 **Manilius, Marcus.**

.6 **Phædrus.**

.7 **Lucilius Junior. "Ætna."**

.8

872 Latin Drama.

.1 **Andronicus, Livius.**

.2 **Nævius, Cnæus.**

.3 **Plautus, Titus Maccius.**

.4 **Ennius.**

.5 **Terence. (Publius Terentius Afer.)**

.6 **Seneca, Lucius Annæus.** See also 878.5.

.7

873 Latin Epic Poetry.

.1 **Virgil. (Publius Virgilius Maro.)**

.2 **Lucanus, Marcus Annæus.**

.3 **Flaccus, Caius Valerius.**

.4 **Silius Italicus, Caius.**

.5 **Statius, Publius Papinius.**

.6

874 Latin Lyric Poetry.

.1 **Catullus, Tibullus and Propertius.**

.2 **Catullus, Valerius.**

.3 **Tibullus, Albius.**

.4 **Propertius, Sextus Aurelius.**

.5 **Horace. (Quintus Horatius Flaccus.)** See also 877.3.

.6 **Calpurnius Siculus.**

.7

INTENTIONAL SECOND EXPOSURE

867 Spanish Satire.

.1 **Early Spanish.** –1369.

Ruiz, Juan (Arcipreste de Hita) 1350.

.2 **Age of Imitation.** 1369–1516.

"Coplas de Mingo Revulgo."

.3 **Golden Age.** 1516–1700.

Quevedo Villegas, Francisco Gomez de 1580–1645.

.4 **18th Century.** 1700–1800.

For Cadalso, see 861.42; and Moratin the younger, 862.42.

.41 Jorge Pitillas (a pseudonym).

.42 Isla, José Francisco de (el Padre) 1703–1781.

868 Spanish miscellany.

.1 **Early Spanish.** –1369.

.11 Alfonso X., El Sábio 1221–1284.

.12 Sancho El Bravo (IV. of Castile) 1258–1295.

.13 Manuel, Juan 1282–1347.

.14 Alfonso XI. 1310–1350.

.19 Minor writers.

.2 **Age of Imitations.** 1369–1516.

General and special histories, books of travel, works called forth by Boccacio's "Corvaccio," etc.

.3 **Golden Age.** 1516–1700.

Didactic prose. Considerable development, though less than poetry, owing in a great measure to restraints political and religious. "Bad Taste" manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representatives of Mystic School.

For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3.

.31 Mariana, Juan de, Founder of Spanish History 1536–1623.

.32 Granada, Luis de 1504–1588.

.33 Teresa de Jesús, Santa 1513–1582.

.34 Cruz, San Juan de la 1542–1591.

.35 Rivadeneyra, Pedro de 1527–1611.

.36 Saavedra Fajardo, Diego de 1584–1648.

.39 Minor Writers.

.4 **18th Century.** 1700–1800.

Under Carlos 3d (1759–'88) scientific studies took a fresh start, due largely to Feijóo who attempted intellectual emancipation of Spain. Prose advances under French influence — Gallicisms introduced.

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764.

.42 Jovellanos, Gaspar Melchor de 1744–1811.

.49 Minor writers.

.5 **19th Century.** 1800–

For Hartzembusch, J. E., see 861.56.

.51 Gayangos, Pascual de 1809–

.52 Rios, José Amador de los 1818–1878.

.53 Milá y Fontanals, Manuel 1818–

.59 Minor writers.

869 Portuguese Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

870 Latin Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

.1 **Lucretius Carus, Titus.** See also 187.

.2 **Ovid. (Publius Ovidius Naso.)**

.3 **Hyginus, Caius Julius.**

.4 **Faliscus, Gratius.**

.5 **Manilius, Marcus.**

.6 **Phædrus.**

.7 **Lucilius Junior. "Ætna."**

.8

872 Latin Drama.

.1 **Andronicus, Livius.**

.2 **Nævius, Cnæus.**

.3 **Plautus, Titus Maccius.**

.4 **Ennius.**

.5 **Terence. (Publius Terentius Afer.)**

.6 **Seneca, Lucius Annæus.** See also 878.5.

.7

873 Latin Epic Poetry.

.1 **Virgil. (Publius Virgilius Maro.)**

.2 **Lucanus, Marcus Annæus.**

.3 **Flaccus, Caius Valerius.**

.4 **Silius Italicus, Caius.**

.5 **Statius, Publius Papinius.**

.6

874 Latin Lyric Poetry.

.1 **Catullus, Tibullus and Propertius.**

.2 **Catullus, Valerius.**

.3 **Tibullus, Albius.**

.4 **Propertius, Sextus Aurelius.**

.5 **Horace. (Quintus Horatius Flaccus.)** See also 877.3.

.6 **Calpurnius Siculus.**

.7

875 Latin Oratory.

.1 Cicero, Marcus Tullius. Complete Works.
For Cicero's Letters see 876.1.
.2 Orations.
.3 Rhetorical Works.
.4 Philosophical Works. See also 186.3.
.5 Messala Corvinus, Marcus Valerius.
.6 Quintilian. (Marcus Fabius Quintilianus.)
.7

876 Latin Letters.

.1 Cicero, Marcus Tullius. For his other works see 875.1–875.4.
.2 Pliny. (Caius Plinius Cæcilius Secundus.)
.3 Fronto, Marcus Cornelius.
.4

877 Latin Satire and Humor.

.1 Lucilius, Caius.
.2 Cato, Valerius.
.3 Horace. See 874.5.
.4 Persius Flaccus, Aulus.
.5 Petronius Arbiter, Caius.
.6 Martial. (Marcus Valerius Martialis.)
.7 Juvenal. (Decimus Junius Juvenalis.)

878 Latin Miscellany.

.1 Cæsar, Caius Julius.
.2 Sallust. (Caius Sallustius Crispus.)
.3 Nepos, Cornelius.
.4 Livy. (Titus Livius Patavinus.)
.5 Seneca, Lucius Annæus. See also 872.6 and 188.6.
.6 Tacitus, Caius Cornelius.
.7 Suetonius Tranquillus, Caius.
.8 Curtius Rufus, Quintus.
.9 Minor Writers.

879 Mediæval and Modern Latin.

Subdivided like 820. .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

880 Greek Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on Greek Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Greek Literature.

881 Greek Poetry in General.

See Dramatic, Epic, and Lyric, below.

.1 Theognis.
.2 Aratus.
.3 Lycophron.
.4 Babrius.

882 Greek Dramatic Poetry.

.1 Æschylus.
.2 Sophocles.
.3 Euripides.
.4 Aristophanes.
.5 Epicharmus.
.6 Menander.

883 Greek Epic Poetry.

.1 Homer.
.2 Hesiod.
.3 Apollonius Rhodius.
.4 Oppian.
.5 "Orphic Poems."

884 Greek Lyric Poetry.

.1 Tyrtæus.
.2 Sappho.
.3 Anacreon.
.4 Simonides of Ceos.
.5 Pindar.
.6 Theocritus.
.7 Bion.
.8 Callimachus.
.9 Minor Greek Lyric Poets

885 Greek Oratory.

.1 Andocides.
.2 Lysias.
.3 Isæus.
.4 Isocrates.
.5 Æschines.
.6 Demosthenes.
.7 Hyperides.
.8 Lycurgus.
.9 Minor Greek Orators.

886 Greek Letters.

.1 Themistocles.
.2 Alciphron.
.3 Phalaris.

887 Greek Satire and Humor.

For Comedies of Aristophanes see 882.4.

.1 Archilochus.
.2 Simonides of Samos.
.3 Hipponax.

888 Greek Miscellany.

.1 Herodotus.
.2 Thucydides.
.3 Xenophon.
.4 Plato. See 184.1, Platonic Philosophy.
.5 Aristotle. See 185.1, Aristotelian Philosophy.
Or if preferred the works of Plato and Aristotle may be put in 184.1, and 185.1.
.6 Æsop.
.7 Lucian.
.8 Plutarch. See also 186.2.
.9 Minor Writers.

889 Medieval and Modern Greek.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

890 Literature of Minor Languages.

Subdivided like 490, Philology of Minor Languages. If wished the .1, Poetry; .2, Drama, etc., numbers can be used after the language number. e. g., Russian Drama is 891.72; Hebrew Poetry 892.41; Bengali Poetry 891.441.

History.

900 History in General.

901–909 all have *History in General* as their subject, but it is treated in these various *forms*. A periodical on English History goes with 942, not 905, which is only for periodicals on History in General. A Zero in any class nnmber in any part of the classification shows the subject to be general, not specific.

901 Philosophy, Theories, etc. History of Civilization.
902 Compends, Chronologies, Charts, Outlines.
For Chronology as a Science, see 529.
903 Dictionaries, Cyclopedias, etc.
904 Essays, Lectures, Addresses.
905 Periodicals, Historical Magazines.
906 Societies, Transactions, etc.
907 Education, Methods of Teaching, Writing, etc.
See also 371.3.
908 Polygraphy, Collected Works, Extracts, etc.
909 Universal and General Modern Histories.
For General Ancient Histories, see 930.

.1	A. D. 476—1199.	.5	1500—1599.
.2	1200—1299.	.6	1600—1699.
.3	1300—1399.	.7	1700—1799.
.4	1400—1499.	.8	1800—1899.

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.
For map projection, see 526.9. See also 310 Statistics, 390 Customs and Costumes.
For Directories, Guide Books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914–919.

.1
.2 Traveler's Manuals, Guidebooks.
.3 Dictionaries, Gazetteers.
.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.
.5 Periodicals.
.6 Societies.
.7 Study and Teaching of Geography. School Map Drawing.
See 372.8, Primary Teaching of Geography.
.8 Collections of Travels, etc.
.9 History of Geography, Travels, Explorations, etc.

INTENTIONAL SECOND EXPOSURE

885 Greek Oratory.

.1 Andocides.
.2 Lysias.
.3 Isæus.
.4 Isocrates.
.5 Æschines.
.6 Demosthenes.
.7 Hyperides.
.8 Lycurgus.
.9 Minor Greek Orators.

886 Greek Letters.

.1 Themistocles.
.2 Alciphron.
.3 Phalaris.

887 Greek Satire and Humor.

For Comedies of Aristophanes see 882.4.

.1 Archilochus.
.2 Simonides of Samos.
.3 Hipponax.

888 Greek Miscellany.

.1 Herodotus.
.2 Thucydides.
.3 Xenophon.
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.5 Aristotle. See 185.1, Aristotelian Philosophy.
Or if preferred the works of Plato and Aristotle may be put in 184.1, and 185.1.
.6 Æsop.
.7 Lucian.
.8 Plutarch. See also 186.2.
.9 Minor Writers.

889 Medieval and Modern Greek.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

890 Literature of Minor Languages.

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903 Dictionaries, Cyclopedias, etc.
904 Essays, Lectures, Addresses.
905 Periodicals, Historical Magazines.
906 Societies, Transactions, etc.
907 Education, Methods of Teaching, Writing, etc.
See also 371.3.
908 Polygraphy, Collected Works, Extracts, etc.
909 Universal and General Modern Histories.
For General Ancient Histories, see 930.

.1	A. D. 476—1199.	.5	1500—1599.
.2	1200—1299.	.6	1600—1699.
.3	1300—1399.	.7	1700—1799.
.4	1400—1499.	.8	1800—1899.

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.
For map projection, see 526.9. See also 310 Statistics, 390 Customs and Costumes.
For Directories, Guide Books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914–919.

.1
.2 Traveler's Manuals, Guidebooks.
.3 Dictionaries, Gazetteers.
.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.
.5 Periodicals.
.6 Societies.
.7 Study and Teaching of Geography. School Map Drawing.
See 372.8, Primary Teaching of Geography.
.8 Collections of Travels, etc.
.9 History of Geography, Travels, Explorations, etc.

Historical Atlases
R911

911 Historical. Growth and Changes in Political Divisions, etc. Subdivided like 930–999.

912 Maps, Atlases, Plans of Cities, etc. Subdivided like 930–999.

913 Antiquities, Archæology, of Special Countries.

See also 220.93, biblical antiquities; 340.3, legal antiquities; 571, prehistoric archæology; 930, ancient history; 390, special customs. 913 is divided like 930–999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African.

914 Europe.

915 Asia.

916 Africa.

917 North America.

918 South America.

919 Oceanica and Polar Regions.

914–919 is subdivided like 940–999. Whenever these main geographical headings occur they may be subdivided exactly like History. The full list of sub-heads is printed only under 940–999. In assigning numbers to travels, use the history tables, and *insert 1 after the initial 9*, and move the decimal point; e. g. Guide to N. Y. City is 917.471, for N. Y. in history tables is 974.71.

920. Biography.

Including Autobiography, Diaries, Personal Narratives, Eulogies, Biographical Dictionaries, &c. All Biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i. e., the biography of science is divided like science itself, see 500–599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, &c. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.

Another plan is to scatter biography with the other books, leaving 920–928 blank, or using them only for general works, cross references, &c. This simply omits the first two figures 92, and the life of a botanist is 580 instead of 925.8, and goes with the botanical books.

Lives which will not go under any head without "forcing" are best put in a single alphabet under the three figures 920 for men and 920.7 for women.

General and Collective by Localities.

Including only collected lives too general to go under any subject heading.

.01 Universal.
.02 Partial Collections not limited to any special country or subject.
.03 Ancient.
.04 Of Europe.
.05 „ Asia.
.06 „ Africa.
.07 „ North America.
.08 „ South America.
.09 „ Oceanica.

Individual and Collective by Subjects.

920.1 Bibliographers.
.2 Librarians.
.3 Encyclopædists.
.4 Publishers. Booksellers.
.5 Journalists.
.6 Academicians.
.7 Women. Collected, and individual lives not clearly going with any subject.
.8 Eccentrics, Cranks, Fools, Insane, &c. See also 132.1, Insanity.
.9 Other special classes not included in 921–928, e. g., Phrenologists, Somnambulists, Mind Readers, Magicians, &c.

921 Of Philosophy.

.1 American.
.2 English. Scotch.
.3 German.
.4 French.
.5 Italian.
.6 Spanish.
.7 Slavic.
.8 Scandinavian and Other Modern.
.9 Ancient. Oriental. Patristic. Scholastic. See 180–189.

922 Of Religion. Clergy, Missionaries, Preachers.

.1 Primitive (Apostles, Fathers, &c.), Oriental, Greek, Russian. See 225.92, New Testament biography.
.2 Roman Catholic. Popes, Cardinals, &c.
.3 Anglican and Protestant Episcopal.
.4 Continental Protestant. Lutheran, Huguenot.
.5 Presbyterian and Congregational.
.6 Baptist.
.7 Methodist.
.8 Unitarian, Universalist, and other.
.9 Non-Christian. Atheists.

922.1–922.8 may be subdivided for nationality like 930–999.

923 Of Sociology.

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g., the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551.

- .1 **Chief Rulers. Kings, Queens, Emperors, Presidents.**
- .2 **Political Science. Legislative Dept., Governors, Politicians, Statesmen, Nobles, &c.** For slaves, see 326.92.
- .3 **Political Economy. Bankers, Capitalists, Financiers.**
- .4 **Law. Judiciary Dept., Lawyers, Judges, Criminals.**
- .5 **Administration. Army and Navy, Civil Service.**
- .6 **Associations and Institutions. Philanthropists, &c.**
- .7 **Education. Teachers, School Officers, Educators.**
- .8 **Commerce and Communication. R. R. Officials, Merchants, &c.**
- .9 **Manners and Customs. Society, Travelers, Discovery.**

924 Of Philology.
925 „ Science.
926 „ Useful Arts.
927 „ Fine Arts.
928 „ Literature.

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g., in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g., a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7.

In adding figures for the subdivisions of Literature (as in 810–899) Historians are put with miscellaneous authors as 8, i. e., Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet.

929 Genealogy and Heraldry.

- .1 **Genealogies.**
- .2 **Families.** Take the Letter no from the family & small letter from the author.
- .3 **Registers of Births, Baptisms, Marriages, Deaths.**
- .4 **Names of Persons and Places.**
- .5 **Epitaphs.**
- .6 **Heraldry.**
- .7 **Peerages, Precedence, Titles of Honor.**
- .8 **Coats of Arms, Crests.** Flags
- .9 **Flags.**

930 Ancient History. To A. D. 476.

931 China.
932 Egypt.
933 Judea.
934 India.
935 Medo-Persia.

- .1 **Chaldæa.**
- .2 **Assyria. Nineveh.**
- .3 **Media.**
- .4 **Babylonia.**
- .5 **Persia.**
- .6 **Parthia.**
- .7 **New Persian or Sassanian.**
- .8 **Mesopotamia.**
- .9 **Susiana.**

936 Kelts.
937 Rome. Italy.

Period Divisions.

.01	Kings.	753–509	B. C.
.02	Republic.	509– 31	„
.03	Conquest of Italy.	509–264	„
.04	Punic Wars.	264–146	„
.05	Civil Strife.	146– 31	„
.06	Empire.	31 B. C.–476	A. D
.07	Constitutional.	31 „ –284	„
	Augustus—Illyrian Emperors.		
.08	Absolute.	284–476	„
.09	Division of Empire.	395–476	„
	Barbarian Conquests and Fall of Western Empire.		

Geographical Divisions.

- .1 **Liguria.**
- .2 **Gallia Cisalpina.**
- .3 **Venetia. Istria.**
- .4 **Umbria. Picenum. Sabini, etc.**
- .5 **Etruria.**
- .6 **Latium, Rome.**
- .7 **Southern Italy: Campania, Samnium, Apulia, etc.**
- .8 **Sicily, Syracuse.**
- .9 **Sardinia. Corsica.**

938 Greece.

Period Divisions.

.01	Mythical Age.	To 776 B. C.
.02	Growth of States.	775–500 „
.03	Persian Wars. Union of Greece.	500–479 „
.04	Athenian Supremacy.	479–431 „
.05	Peloponnesian War.	431–404 „
.06	Spartan and Theban Supremacy.	404–362 „
.07	Macedonian Supremacy.	362–323 „
.08	Roman Conquest of Greece.	323–146 „
.09	Greek Subjection.	146 B. C.–323 A. D.

Byzantine Empire is put 949.5.

Geographical Divisions.

.1 **Macedonia.**

.2 **Thessaly. Epirus.**

.3 **Acarnania. Ætolia. Locris. Doris. Phocis. Ithaca.**

.4 **Bœotia. Megaris. Eubœa.**

.5 **Attica.**

.6 **Peloponnesus.**

.7 **Corinthia. Achaia.**

.8 **Elis. Arcadia. Argolis.**

.9 **Messenia. Laconia. Sparta.**

939 Minor Countries.

.1 **Grecian Archipelago.**

.11, Northern Islands: Thasos, Lemnos, etc.; .12, Lesbos; .13, Chios, etc.; .14, Samos, etc.; .15, Cyclades; .16, Rhodes, etc.; .17, Carpathos; .18, Crete.

.2 **Western Asia Minor.**

.21, Mysia, Troas; .22, Lydia; .23, Ionia; .24, Caria; .25, Bithynia; .26, Phrygia; .27, Pisidia; .28, Lycia; .29, Pamphylia.

.3 **Eastern Asia Minor.**

.31, Paphlagonia; .32, Galatia; .33, Pontus; .34, Cappadocia; .35, Cilicia; .36, Commagene; .37, Cyprus.

.4 **Syria.**

.41, Upper Syria; .42, Cœle Syria; .43, Palmyra; .44, Phenicia, Tyre; .45, Palestine: Hittites, Philistines, etc.; .46, Edom, Moab, Bashan. etc.; .47, **Arabia**; .48, Arabia Petræa, Sinai.

.5 **North Western Asia.**

.51, Scythia; .52, Sarmatia Asiatica; .53, Colchis; .54, Iberia; .55, Armenia; .56, Albania.

.6 **South Central Asia.**

.61, Sogdiana; .62, Hyrcania; .63, Margiana; .64, Bactriana; .65, Ariana.

.7 **Minor African Countries.**

.71, Mauritania; .72, Numidia; .73, Africa Propria, Carthage; .74, Syrtica Regio; .75, Cyrenaica; .76, Marmarica; .77, Libya, Gætulia; .78, Æthiopia.

8 **South Eastern Europe.**

.81, Sarmatia Europa; .82, Dacia; .83, Vindelicia; .84, Rhætia; .85, Noricum; .86, Pannonia; .87, Illyria; .88, Mœsia; .89, Thracia.

Modern History.

940 Europe.

From the fall of Western Empire (Rome), A. D. 476.

.1	**Medieval Europe.**	476–1453.
	For Byzantine Empire see 949.5.	
.2	**Rise of New Nations.**	476–800.
.3	**Age of Feudalism.**	800–1100.
	See 321.3.	
	Charlemagne. 768–814.	
	Norman Conquests.	
.4	**Age of Chivalry.**	1100–1453.
	The Crusades. To fall of Eastern Empire (Constantinople). 1453.	
	For Church History see 270.4–270.5.	
.5	**Modern Europe.**	1453——
.6	**The Renaissance Period.**	1453–1517.
	Discoveries and Inventions.	
.7	~~Age of the~~ **Reformation.** period	1517–1789.
	The 30 Years' War. 1618–1648.	
.8	**Napoleonic Period.**	1789–1815.
.9	~~Current History~~. 19th Century	1815——

941 Scotland.

Period Divisions.

.01	Gaelic Period.	–1097.
.02	English Period.	1097–1314.
	Struggle for National Freedom.	
.03	Independent Kingdom.	1314–1424.
.04	The Jameses.	1424–1557.
.05	Reformation.	1557–1603.
.06	Union of Crowns and Parliaments.	1603–1707.
.07	Hanover.	1707–1837.
.08	Victoria.	1837–
.09		

Geographical Divisions.

.1 **Northern Scotland.**

.11, Shetland; .12, Orkney; .13, Caithness; .14, Sutherland; .15, Cromarty; .16, Ross; .17, Hebrides.

.2 **North Central Scotland.**

.21, Inverness; .22, Nairn; .23, Elgin; .24, Banff; .25, Aberdeen; .26, Kincardine.

.3 **South Central Scotland.**

.31, Forfar; .32, Perth; .33, Fife; .34, Kinross; .35, Clackmannan; .36, Sterling; .37, Dunbarton; .38, Argyll; .39, Bute.

.4 **Southern Scotland.**

.41, Renfrew; .42, Ayr; .43, Lanark; .44, Linlithgow, Edinburgh; .45, Haddington, Berwick; .46, Peebles, Selkirk; .47, Roxburgh; .48, Dumfries; .49, Kirkcudbright, Wigton.

941.5 Ireland.

Period Divisions.

.51	Early History.	–1086.
.52	Separate Kingdoms.	1086–1172.
	Conquest by Henry II.	
.53	Plantagenet.	1172–1399.
.54	Lancaster and York.	1399–1485.
.55	Tudors.	1485–1603.
.56	Stuarts.	1603–1691.
	Closing with Treaty of Limerick.	
.57	Hanover.	1691–1801.
	Closing with the Union.	
.58	19th Century.	1801–
.59		

Geographical Divisions.

.6 Ulster.

.61, Antrim; .62, Londonderry; .63, Donegal; .64, Tyrone; .65, Down; .66, Armagh; .67, Monaghan; .68, Fermanagh; .69, Cavan.

.7 Connaught.

.71, Leitrim; .72, Sligo; .73, Mayo; .74, Galway; .75, Roscommon.

.8 Leinster.

.81, Longford, West Meath; .82, Meath, Louth; .83, Dublin; .84, Wicklow; .85, Kildare; .86, King's Co.; .87, Queen's Co.; .88, Carlow, Wexford; .89, Kilkenny.

.9 Munster.

.91, Waterford; .92, Tipperary; .93, Clare; .94, Limerick; .95, Cork; .96, Kerry.

942 England.

Period Divisions.

For specially minute work the 6th figure printed for each sovereign may be used; e. g., Henry VII is 942.051.

.01 Anglo-Saxon. B. C. 55–A. D. 1066.

Prehistoric, Roman, British, Danish.

.02 Norman. 1066–1154.

1, William I. 1066–1087; 2, William II. 1087–1100; 3, Henry I. 1100–1135; 4, Stephen 1135–1154.

.03 Plantagenet. 1154–1399.

1, Henry II. 1154–1189; 2, Richard I. 1189–1199; 3, John 1199–1216; 4, Henry III. 1216–1272; 5, Edward I. 1272–1307; 6, Edward II. 1307–1327; 7, Edward III. 1327–1377; 8, Richard II. 1377–1399.

942.04 Lancaster and York. 1400–1485.

1, Henry IV. 1399–1413; 2, Henry V. 1413–1422; 3, Henry VI. 1422–1461; 4, Edward IV. 1461–1483; 5, Edward V. 1483; 6, Richard III. 1483–1485.

.05 Tudor. 1485–1603.

1, Henry VII. 1485–1509; 2, Henry VIII. 1509–1547; 3, Edward VI. 1547–1553; 4, Mary 1553–1558; 5, Elizabeth 1558–1603. See 272.7.

.06 Stuart. 1603–1714.

1, James I. 1603–1625; 2, Charles I. 1625–1649; 3, Commonwealth 1649–1653; 4, Oliver Cromwell 1653–1658; 5, Richard Cromwell 1658–1659; 6, Charles II. 1660–1685; 7, James II. 1685–1688; 8, William III. 1689–1702; 9, Anne 1702–1714.

.07 Hanover. 1714–1837.

1, George I. 1714–1727; 2, George II. 1727–1760; 3, George III. 1760–1820; 4, George IV. 1820–1830; 5, William IV. 1830–1837.

.08 Victoria. 1837–

Geographical Divisions.

.1 Middlesex. London.

.2 Southeastern.

.21, Surrey; .23, Kent; .25, Sussex; .27, Hants; .28, Isle of Wight; .29, Berks.

.3 Southwestern.

.31, Wilts; .33, Dorset; .34, Channel Islands; .35, Devon; .37, Cornwall; .38, Somerset.

.4 West Midland.

.41, Gloucester; .43, Monmouth; .44, Hereford; .45, Salop; .46, Stafford; .47, Worcester; .48, Warwick.

.5 North and South Midland.

.51, Derby; .52, Notts; .53, Lincoln; .54, Leicester, Rutland; .55, Northampton; .56, Huntington, Bedford; .57, Oxford, Buckingham; .58, Hertford; .59, Cambridge.

.6 Eastern.

.61, Norfolk; .64, Suffolk; .67, Essex.

.7 Northwestern and Yorkshire.

.71, Cheshire; .72, Lancashire; .74, Yorkshire.

.8 Northern.

.81, Durham; .82, Northumberland; .85, Cumberland; .88, Westmoreland; .89, Isle of Man.

.9 Wales.

.91, Anglesey; .92, Carnarvon, Merioneth; .93, Denbigh, Flint; .94, Montgomery; .95, Cardigan; .96, Radnor, Brecknock; .97, Glamorgan; .98, Carmarthen; .99, Pembroke.

943 Germany and Austria.

Period Divisions.

.01 Formative Period.
Wars with Rome. Charlemagne 800–814; Louis I 814–840; Lothaire I 840–843.

.02 Empire before the Reformation.
1, **Carolingian,** 843–911: Louis II 843–876; Charles II 876–877; Charles III 877–887; Arnulf 887–899; Louis III 900–911.
2, House of Franconia: Conrad I 911–918; House of **Saxony,** 919–1024: Henry I 919–936; Otto I 936–973; Otto II 973–983; Otto III 983–1002; Henry II 1002–1024.
3, House of **Franconia,** 1024–1125: Conrad II 1024–1039; Henry III 1039–1056; Henry IV 1056–1106; Henry V 1106–1125; House of Saxony: Lothaire II 1125–1137.
4, House of **Hohenstaufen,** 1137–1197: Conrad III 1138–1152; Frederick I 1152–1190; Henry VI 1190–1197.
5, House of **Hohenstaufen and Interregnum,** 1198–1272: Philip 1198–1208; Otto IV 1208–1212; Frederick II 1212–1250; Conrad IV 1250–1254; William of Holland 1254–1256; Richard of Cornwall 1256–1272.
6, Houses of **Hapsburg, Luxemburg,** etc., 1273–1378: Rodolph I 1273–1291; Adolphus 1291–1298; Albert I 1298–1308; Henry VII 1308–1313; Louis IV 1313–1347; Charles IV 1347–1378.
7, **Interregnum,** 1378–1437: Wenceslaus 1378–1400; Rupert 1400–1410; Sigismund 1410–1437.
8, Albert II 1438–1439; Frederick III 1440–1493.
9, Maximilian I 1493–1519.

.03 Reformation to 1618. 1517–1618.
1, Charles V 1519–1556; 2, Ferdinand I 1556–1564; 3, Maximilian II 1564–1576; 4, Rodolph II 1576–1612; 5, Matthias 1612–1619.

.04 Disintegration. 1618–1705.
1, Thirty Years' War 1618–1648; 2, Ferdinand II 1619–1637; 3, Ferdinand III 1637–1657; 4, Leopold I 1658–1705.

.05 Rise of Prussia. 1705–1789.
1, Joseph I 1705–1711; 2, Charles VI 1711–1740; 3, 1740–1742; 4, Charles VII 1742–1745; 5, Francis I 1745–1765; 6, *Seven Years' War 1756–1763;* 7, Joseph II 1765–1790.

.06 Napoleonic Wars. 1789–1815.
Leopold II 1790–1792; Francis II 1792–1806; Confederation of the Rhine 1806–1815.

.07 Reorganization. 1815–1866.

.08 New German Empire. 1866–
1, North German Confederation 1866–1871; 2, Franco-German War 1870–1871; 3, William I 1871.

Geographical Divisions of Germany and Austria.

943.1 Prussia and Northern Germany.

943 .11, East Prussia; .12, West Prussia; .13, Posen; .14, Silesia; .15, Brandenburg; .16, Pomerania; .17, Mecklenburg and Lubeck; .18, Prussian Saxony; .19, Anhalt.

.2 Central Germany.

.21, Saxony; .22, Thuringia; .23, Saxe-Weimar; .24, Saxe-Altenburg; .25, Saxe-Gotha-Coburg; .26, Saxe-Meiningen; .27, Schwartzburg; .28, Reuss.

943.3 Bavaria.

.31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Suabia.

.4 Southern Germany.

.41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurtemburg; .48, *Black Forest* and *Danube;* .49, Hohenzollern.

.5 Northwest Germany.

.51, Schleswig-Holstein and Hamburg; .52, Oldenburg and Bremen; .53, Hanover; .54, Brunswick; .55, Lippe; .56, Westphalia; 57, Waldeck; .58, Hesse-Nassau.

943.6 Austria.

.61, Lower Austria; .62, Upper Austria; .63, Salzburg; .64, Tyrol; 65, Styria; .66, Carinthia; 67, Carniola; .68, Istria; .69, Dalmatia.

.7 Bohemia, etc.

.71, Bohemia; .72, Moravia; 73, Silesia; .74, Galicia; .75, Bukowina.

.8 Poland. Including the history before the division.

.9 Hungary, etc.

.91, Hungary; .92, Transylvania; .93, Slavonia; .94, Croatia, Fiume; .95 Bosnia; .96, Herzegovina.

944 France.

Period Divisions.

.01 Early History. -987.
Ancient Celts -59 B. C.; Roman Dominion 59 B. C.–418 A. D.; Merovingian Dynasty 428–752; Carolingian 752–987.

.02 Capet and Valois. 987–1589.
House of **Capet.**
1, Hugh Capet 987–996; Robert II 996–1031; Henry I 1031–1060.
2, Philip I 1060–1108; Louis VI 1108–1147; Louis VII 1147–1180.
3, Philip II 1180–1223; Louis VIII 1223–1226; Louis IX 1226–1270.
4, Philip III 1270–1285; Philip IV 1285–1314; Louis X 1314–1316; John I 1316; Philip V 1316–1322; Charles IV 1322–1328.
House of **Valois.**
5, Philip VI 1328–1350; John II 1350–1364; Charles V 1364–1380.
6, Charles VI 1380–1422; Charles VII 1422–1461.
7, Louis XI, 1461–1483; Charles VIII 1483–1498; Louis XII 1498–1515.
House of **Angoulême.**
8, Francis I 1515–1547; Henry II 1547–1559.
9, Francis II 1559–1560; Charles IX 1560–1574: Henry III 1574–1589.

.03 **Bourbon.** 1589–1789
1, Henry IV 1589–1610; 2, Louis XIII 1610–1643; 3, Louis XIV 1643–1715; 4, Louis XV 1715–1774; 5, Louis XVI 1774–1789.

.04 Revolution. 1789–1804.
1, National Assembly 1789–1792; 2, First Republic 1792–1799; 3, Convention, 1792–1795; 4, Reign of Terror; May 1793–July 1794; 5, Directory 1795–1799; 6, First Consulate, Napoleon, 1799–1804.

.05 First Empire. 1804–1815.
Napoleon I 1804–1814; Louis XVIII 1814–1815; The Hundred Days March 20–June 29, 1815.

INTENTIONAL SECOND EXPOSURE

943 Germany and Austria.

Period Divisions.

.01 Formative Period.
Wars with Rome. Charlemagne 800–814; Louis I 814–840; Lothaire I 840–843.

.02 Empire before the Reformation.
1, **Carolingian,** 843–911: Louis II 843–876; Charles II 876–877; Charles III 877–887; Arnulf 887–899; Louis III 900–911.
2, House of Franconia: Conrad I 911–918; House of **Saxony,** 919–1024: Henry I 919–936; Otto I 936–973; Otto II 973–983; Otto III 983–1002; Henry II 1002–1024.
3, House of **Franconia,** 1024–1125: Conrad II 1024–1039; Henry III 1039–1056; Henry IV 1056–1106; Henry V 1106–1125; House of Saxony: Lothaire II 1125–1137.
4, House of **Hohenstaufen,** 1137–1197: Conrad III 1138–1152; Frederick I 1152–1190; Henry VI 1190–1197.
5, House of **Hohenstaufen** and **Interregnum,** 1198–1272: Philip 1198–1208; Otto IV 1208–1212; Frederick II 1212–1250; Conrad IV 1250–1254; William of Holland 1254–1256; Richard of Cornwall 1256–1272.
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7, **Interregnum,** 1378–1437: Wenceslaus 1378–1400; Rupert 1400–1410; Sigismund 1410–1437.
8, Albert II 1438–1439; Frederick III 1440–1493.
9, Maximilian I 1493–1519.

.03 Reformation to 1618. 1517–1618.
1, Charles V 1519–1556; 2, Ferdinand I 1556–1564; 3, Maximilian II 1564–1576; 4, Rodolph II 1576–1612; 5, Matthias 1612–1619.

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1, Thirty Years' War 1618–1648; 2, Ferdinand II 1619–1637; 3, Ferdinand III 1637–1657; 4, Leopold I 1658–1705.

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1, Joseph I 1705–1711; 2, Charles VI 1711–1740; 3, 1740–1742; 4, Charles VII 1742–1745; 5, Francis I 1745–1765; *6, Seven Years' War 1756–1763;* 7, Joseph II 1765–1790.

.06 Napoleonic Wars. 1789–1815.
Leopold II 1790–1792; Francis II 1792–1806; Confederation of the Rhine 1806–1815.

.07 Reorganization. 1815–1866.

.08 New German Empire. 1866–
1, North German Confederation 1866–1871; 2, Franco-German War 1870–1871; 3, William I 1871.

Geographical Divisions of Germany and Austria.

943.1 **Prussia and Northern Germany.**
943 .11, East Prussia; .12, West Prussia; .13, Posen; .14, Silesia; .15, Brandenburg; .16, Pomerania; .17, Mecklenburg and Lubeck; .18, Prussian Saxony; .19, Anhalt.

.2 **Central Germany.**
.21, Saxony; .22, Thuringia; .23, Saxe-Weimar; .24, Saxe-Altenburg; .25, Saxe-Gotha-Coburg; .26, Saxe-Meiningen; .27, Schwartzburg; .28, Reuss.

943.3 **Bavaria.**
.31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Suabia.

.4 **Southern Germany.**
.41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurtemburg; .48, *Black Forest* and *Danube;* .49, Hohenzollern.

.5 **Northwest Germany.**
.51, Schleswig-Holstein and Hamburg; .52, Oldenburg and Bremen; .53, Hanover; .54, Brunswick; .55, Lippe; .56, Westphalia; 57, Waldeck; .58, Hesse-Nassau.

943.6 Austria.
.61, Lower Austria; .62, Upper Austria; .63, Salzburg; .64, Tyrol; 65, Styria; .66, Carinthia; 67, Carniola; .68, Istria; .69, Dalmatia.

.7 **Bohemia, etc.**
.71, Bohemia; .72, Moravia; 73, Silesia; .74, Galicia; .75, Bukowina.

.8 **Poland.** Including the history before the division.

.9 **Hungary, etc.**
.91, Hungary; .92, Transylvania; .93, Slavonia; .94, Croatia, Fiume; .95 Bosnia; .96, Herzegovina.

944 France.

Period Divisions.

.01 Early History. –987.
Ancient Celts –59 B. C.; Roman Dominion 59 B. C.–418 A. D.; Merovingian Dynasty 428–752; Carolingian 752–987.

.02 Capet and Valois. 987–1589.
House of **Capet.**
1, Hugh Capet 987–996; Robert II 996–1031; Henry I 1031–1060.
2, Philip I 1060–1108; Louis VI 1108–1147; Louis VII 1147–1180.
3, Philip II 1180–1223; Louis VIII 1223–1226; Louis IX 1226–1270.
4, Philip III 1270–1285; Philip IV 1285–1314; Louis X 1314–1316; John I 1316; Philip V 1316–1322; Charles IV 1322–1328.
House of **Valois.**
5, Philip VI 1328–1350; John II 1350–1364; Charles V 1364–1380.
6, Charles VI 1380–1422; Charles VII 1422–1461.
7, Louis XI, 1461–1483; Charles VIII 1483–1498; Louis XII 1498–1515.
House of **Angoulême.**
8, Francis I 1515–1547; Henry II 1547–1559.
9, Francis II 1559–1560; Charles IX 1560–1574; Henry III 1574–1589.

.03 **Bourbon.** 1589–1789
1, Henry IV 1589–1610; 2, Louis XIII 1610–1643; 3, Louis XIV 1643–1715; 4, Louis XV 1715–1774; 5, Louis XVI 1774–1789.

.04 Revolution. 1789–1804.
1, National Assembly 1789–1792; 2, First Republic 1792–1799; 3, Convention, 1792–1795; 4, Reign of Terror; May 1793–July 1794; 5, Directory 1795–1799; 6, First Consulate, Napoleon, 1799–1804.

.05 First Empire. 1804–1815.
Napoleon I 1804–1814; Louis XVIII 1814–1815; The Hundred Days March 20–June 29, 1815.

944.06 Restoration. 1815–1848.
1, Louis XVIII 1815–1824; 2, Charles X 1824–1830; 3, Louis Philippe 1830–1848.

.07 Second Republic and Second Empire. 1848–1870.
Revolution of 1848; Second Republic, Louis Napoleon, Pres., 1848–1852, Napoleon III 1852–1870.

.08 Third Republic. 1870–
1870-71 — Franco-German War, Government of National Defence 1870–1871; National Assembly 1871; Presidency of Thiers 1871–1873; McMahon 1873–1879; Grévy 1879–

Geographical Divisions of France.

944.1 **Brittany. Maine. Anjou.**
.11, Finistère; .12, Côtes du Nord; .13, Morbihan; 14, Loire Inférieure; 15, Ille et Vilaine; 16, **Maine**: Mayenne; 17, Sarthe; 18, **Anjou**: Maine et Loire.

.2 **Normandy. Picardy.**
.21, Manche; .22, Calvados; .23, Orne; 24, Eure; 25, Seine Inférieure; 26, **Picardy**: Somme; 27, **Artois**: Pas de Calais; 28, Nord.

.3 **Champagne. Isle de France. Lorraine.**
.31, Ardennes; .32, Marne; .33, Aube, Haute Marne; .34, **Isle de France**: Aisne; .35, Oise; 36, Seine et Oise, Paris; .37, Seine et Marne; .38, **Lorraine**: Meuse, Moselle; 39, Meurtha, Vosges.

.4 **Burgundy. Franche Comte. Savoy.**
.41, Yonne; .42, Côte d'Or; .43, Saône et Loire; .44, Ain; .45, **Franche Comte**: Haute Saône, Belfort; .46, Doubs; .47, Jura; .48, **Savoy**: Savoie; .49, Haute Savoie.

.5 **Orleans, etc. Auvergne.**
.51, Eure et Loir; .52, Loiret; .53, Loir et Cher; 54, **Touraine**: Indre et Loir; .55, **Berry**: Indre, Cher; .56, **Nivernais**: Nièvre; .57, **Bourbonnais**: Allier; .58, **Lyonnais**: Loire, Rhône; .59, **Auvergne**: Puy de Dôme, Cantal.

.6 **Poitou. Limousin.**
.61, Vendée; .62, Deux Sèvres; .63, Vienne; .64, Charente Inférieure; .65, Charente; .66, **Limousin**: Haute Vienne; .67, Corrèze; .68, **Marche**: Creuse.

.7 **Guienne. Gascony.**
.71, Gironde; .72, Dordogne; .73, Lot; .74, Aveyron; .75, Tarn et Garonne; .76, Lot et Garonne; .77, **Gascony**: Landes, Gers; .78, Hautes Pyrénées; .79, **Bearn**: Basses Pyrénées.

.8 **Languedoc.**
.81, Haute Loire, Lozère; .82, Ardèche; .83, Gard; .84, Hérault; .85, Tarn; .86, Haute Garonne; .87, Aude; .88, **Foix**: Ariége; .89, Pyrénées Orientales.

.9 **Provence. Dauphiny.**
.91, Bouches du Rhône; .92, Vaucluse; .93, Var; .94, Alpes Maritimes; .95, Basses Alpes; 96, **Dauphiny**; 97, Hautes Alpes; 98, Drôme; 99, Isère.

945 Italy.

Period Divisions.

.01 Gothic and Lombard Kingdoms. 476–774.
.02 Frankish Emperors. 774–961.
.03 German Emperors. 962–1122.
Hildebrand and Papal Supremacy.
.04 Age of the Communes. 1100–1300.
Free Cities. Strifes of Guelphs and Ghibelines.
.05 Age of the Despots. 1300–1492.
.06 Age of Invasions. 1492–1527.
.07 Spanish-Austrian Ascendancy. 1527–1796.
.08 Struggle for Independence. 1796–1870.
.09 United Italy. 1870–
Victor Emanuel, Cavour, Garibaldi.

Geographical Divisions of Italy.

945.1 **Piedmont and Liguria.**
.2 **Lombardy.**
.3 **Venetia.**
.4 **Emilia.**
.5 **Tuscany.**
.6 **Marches, Umbria and Latium.**
.7 **Naples.**
.71, Abruzzo and Molise; .72, Campania; .73, Napoli; .74, Salerno; .75, Apulia; .76, Lecce, Terra di Otranto; .77, Basilicata, Potenza; .78, Calabria; 79, Reggio di Calabria.
.8 **Sicily. Malta.**
.9 **Sardinia and Corsica.**

946 Spain.

Period Divisions.

.01 Early History. Roman Dominion. Gothic Kingdom. —— 711.
.02 Moorish Kingdom. 711–1479.
.03 Ferdinand V and Isabella. 1479–1516
Discovery.
Expulsion of the Moors.
.04 Charles I and Philip II. 1516–1598.
Inquisition. War with the Netherlands. Armada. Charles I (V of Germany) 1516–1556; Philip II 1556–1598.
.05 Philip III.—Charles IV. 1598–1808.
Degeneration. 1, Philip III 1598–1621; 2, Philip IV 1621–1665; 3, Charles II 1665–1700; 4, House of **Bourbon**: 5, Philip V 1700–1746; 6, Ferdinand VI 1746–1759; 7, Charles III 1759–1788; 8, Charles IV 1788–1808.
.06 Peninsular War. 1808–1814.
Joseph Bonaparte.
.07 Bourbon Restoration. 1814–1868.
Attempts at Reform.
Ferdinand VII 1814–1833; Isabella II. 1833–1868.
.08 Later 19th Century. 1868 ——
Revolution of 1868–1870; Amadeus 1870–1873; Republic 1873–1875; Alfonso XII 1875——

Geographical Divisions of Spain.

946.1 Galicia. Asturias.
.2 Leon. Estramadura.
.3 Old Castile.
.4 New Castile.
.5 Aragon.
.6 Basque Provinces.
.7 Catalonia. Balearic Isles. Valencia. Murcia.
.8 Andalusia. Canary Isles.
.9 Portugal.
.98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

.01	Primitive Russia.	—— 862.
.02	Varangian Kingdom. Conversion to Christianity.	862–1237.
.03	Mongolian Invasion. Civil Wars.	1237–1462.
.04	Ivan III—Ivan V. Origin of Serfdom.	1462–1689.
.05	Peter the Great. Wars with Sweden and Turkey.	1689–1725.
.06	Catharine I—Catharine II. Partition of Poland.	1725–1796.
.07	Paul I—Nicholas I. War with Napoleon. Insurrection of Poland. Crimean War. See also 942.08; 944.07; 945.08; 949.6.	1796–1855.
.08	Alexander II— Emancipation of the Serfs. Turko-Russian War.	1855 ——

Geographical Divisions of Russia.

947.1 Finland. Lapland.
.2 Northern Great Russia.
Archangel; Vologda; Olonetz; Novgorod.
.3 Southern Great Russia.
.4 Baltic Provinces.
Courland; Livonia; Esthonia; St. Petersburg.
.5 Russian Poland.
.6 West Russia.
.7 Little Russia. South Russia.
.8 East Russia.
.9 Caucasia.

948 Norway, Sweden, and Denmark. Scandinavia

Period Divisions.

.01	Legendary Period.	—— 800.
.02	Consolidation. Migration. Introduction of Christianity. Discovery of Iceland, Greenland, and America. Conquest of Britain and Normandy.	801–1397.
.03	Union of the three kingdoms. Civilization. Foreign relations.	1397–1523.
.04	The Reformation. Edict of Toleration, 1527. 30 Years' War. Gustavus Adolphus.	1523–1648.
.05	Decline. Wars, vs. Denmark, Poland, Russia. Political changes.	1648–1792.
.06	Napoleonic Wars. Union of Norway and Sweden, 1814.	1792–1818.
.07	Charles XIV. (Bernadotte). Peace. Internal reform.	1818 ——.
.08		

Geographical Divisions.

.1 Norway.
.2 Christiania.
.3 Christiansand. Bergen.
.4 Hamar. Throndhjem. Tromso.
.5 Sweden.
.6 Gothland.
.7 Svealand.
.8 Norrland.
.9 Denmark.

949 Minor Countries of Europe.

.1 Iceland. Faroe Islands.
01, Commonwealth, –1264; 02, Mediævalism, 1264–1551; 03, Absolute Rule, Decay, 1551–1848; 04, Modern Iceland, 1848 ——.

.2 Netherlands.
01, Early History, –1477; 02, Austrian Dominion, 1477–1566; 03, Wars for Independence, 1566–1648; 04, Age of Prosperity, 1648–1795; 05, Revolutionary, 1795–1830; 06, 19th Century, 1830 ——.

.3 Belgium.

.4 Switzerland.
01, Early History, –1300; 02, Struggle for Independence, 1300–1499; 03, Reformation, 1499–1648; 04, Period of Tranquillity, 1648–1789; 05, Period of Revolution, 1789–1815; 06, 19th Century, 1815 ——.

INTENTIONAL SECOND EXPOSURE

Geographical Divisions of Spain.

946.1 Galicia. Asturias.
.2 Leon. Estramadura.
.3 Old Castile.
.4 New Castile.
.5 Aragon.
.6 Basque Provinces.
.7 Catalonia. Balearic Isles. Valencia. Murcia.
.8 Andalusia. Canary Isles.
.9 Portugal.
.98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

.01	Primitive Russia.	—— 862.
.02	Varangian Kingdom. Conversion to Christianity.	862–1237.
.03	Mongolian Invasion. Civil Wars.	1237–1462.
.04	Ivan III—Ivan V. Origin of Serfdom.	1462–1689.
.05	Peter the Great. Wars with Sweden and Turkey.	1689–1725.
.06	Catharine I—Catharine II. Partition of Poland.	1725–1796.
.07	Paul I—Nicholas I. War with Napoleon. Insurrection of Poland. Crimean War. See also 942.08; 944.07; 945.08; 949.6.	1796–1855.
.08	Alexander II— Emancipation of the Serfs. Turko-Russian War.	1855 ——

Geographical Divisions of Russia.

947.1 Finland. Lapland.
.2 Northern Great Russia.
Archangel; Vologda; Olonetz; Novgorod.
.3 Southern Great Russia.
.4 Baltic Provinces.
Courland; Livonia; Esthonia; St. Petersburg.
.5 Russian Poland.
.6 West Russia.
.7 Little Russia. South Russia.
.8 East Russia.
.9 Caucasia.

948 Norway, Sweden, and Denmark. Scandinavian

Period Divisions.

.01	Legendary Period.	—— 800.
.02	Consolidation. Migration. Introduction of Christianity. Discovery of Iceland, Greenland, and America. Conquest of Britain and Normandy.	801–1397.
.03	Union of the three kingdoms. Civilization. Foreign relations.	1397–1523.
.04	The Reformation. Edict of Toleration, 1527. 30 Years' War. Gustavus Adolphus.	1523–1648.
.05	Decline. Wars, vs. Denmark, Poland, Russia. Political changes.	1648–1792.
.06	Napoleonic Wars. Union of Norway and Sweden, 1814.	1792–1818.
.07	Charles XIV. (Bernadotte). Peace. Internal reform.	1818 ——.
.08		

Geographical Divisions.

.1 Norway.
.2 Christiania.
.3 Christiansand. Bergen.
.4 Hamar. Throndhjem. Tromso.
.5 Sweden.
.6 Gothland.
.7 Svealand.
.8 Norrland.
.9 Denmark.

949 Minor Countries of Europe.

.1 Iceland. Faroe Islands.
01, Commonwealth, –1264; 02, Mediævalism, 1264–1551; 03, Absolute Rule, Decay, 1551–1848; 04, Modern Iceland, 1848 ——.

.2 Netherlands.
01, Early History, –1477; 02, Austrian Dominion, 1477–1566; 03, Wars for Independence, 1566–1648; 04, Age of Prosperity, 1648–1795; 05, Revolutionary, 1795–1830; 06, 19th Century, 1830 ——.

.3 Belgium.

.4 Switzerland. Genoa
01, Early History, –1300; 02, Struggle for Independence, 1300–1499; 03, Reformation, 1499–1648; 04, Period of Tranquillity, 1648–1789; 05, Period of Revolution, 1789–1815; 06, 19th Century, 1815 ——.

949.5 **Byzantine Empire and Modern Greece.**

01, Greek Revival. 323–716.
Constantine the Great — Theodosius III.
02, Byzantine Prosperity. 716–1057.
Leo III — Michael VI.
03, Byzantine Decline. 1057–1204.
Isaac I — Latin conquest of Constantinople.
04, Greek Survival. 1204–1453.
Constantinople taken by the Turks, 1453.
05, Turkish Power. 1453–1821.
06, Greek Independence. 1821 ——.

.6 **Turkey in Europe.** .61, Constantinople.

.7 **Servia. Bulgaria. Montenegro.**

.8 **Roumania: Wallachia, Moldavia.**

.9 **Islands of Grecian Archipelago.**
Divided like 939.1.

950 Asia.

951 China.
.1, N. E. China, Peking; .2, S. E. China, Canton, Hong Kong, Formosa; .3, S. W. China; .4, N. W. China; .5, Thibet; .6, East Turkestan; .7, Mongolia; .8, Manchuria; .9, Corea.

952 Japan.

953 Arabia.
.1, Sinai; .2, Hejaz, Mecca; .3, Yemen; .4, Hadramaut, Mahrah; .5, Oman; .6, Hasa; .7, Dahna; .8, Nejd; .9, Syrian Desert.

954 India.
.1, Bengal, Orissa, Assam, Bhotan; .2, Northwest Provincés, Oudh, Nepal; .3, Central Provinces; .4, Rajputana; .5, Punjab, Delhi, Lahore; .6, Cashmere; .7, Bombay, Sind, Baroda; .8, Madras, Mysore, Travancore, Ceylon; .9, Hyderabad.

955 Persia.

956 Turkey in Asia. See also 949.6.
.1, Khodavendikyar; .2, Aidin, Smyrna; .3, Kastamuni, Angora; .4, Konieh, Adana, Cyprus; .5, Trebizond, Sivas; .6, Erzerum, Diarbekr, Karpoot; .7, Bagdad, Kurdistan; .8, Aleppo; .9, Damascus, Phenicia, Palestine.

957 Siberia.

958 Afghanistan. Turkestan. Baluchistan.
.1, N. E. Afghanistan, Cabul; .2, South Afghanistan, Candahar; .3, N. W. Afghanistan, Herat; .4, Turkestan; .5, Kiva; .6, Bokhara; .7, Ferghana or Khokan; .8, Baluchistan.

959 Farther India.
.1, British Burmah; .2, Burmah; .3, Siam; .4, Laos; .5, Lower Siam, Malay Peninsula; .6, Cambodia; .7, French Cochin China; .8, Anam; .9, Tonkin.

960 Africa.

961 North Africa.
.1, Tunis; .2, Tripoli; .3, Fezzan.

962 Egypt.
.1, Lower Egypt, Alexandria, Cairo; .2, Middle Egypt; .3, Upper Egypt, Thebes; .4, Nubia; .5, Dongola; .6, Egyptian Soudan, Kartum; .7, Darfur; .8, Kordofan; .9, Sennaar.

963 Abyssinia.

964 Morocco.

965 Algeria.

966 North Central Africa.
.1, Sahara; .2, Soudan; .3, Senegambia; .4, Sierra Leone; .5, Upper Guinea; .6, Liberia; .7, Ashantee; .8, Dahomey; .9, Gold Coast.

967 South Central Africa.
.1, Lower Guinea; .2, Loango, Congo; .3, Angola, Benguela; .4, Interior; .5, Congo Basin; .6, Central Lake Region; .7, Somali; .8, Zanzibar; .9, Mozambique.

968 South Africa.
.1, Sofala; .2, Transvaal; .3, Zululand; .4, Natal; .5, Orange Free State; .6, Kaffraria; .7, Cape Colony; .8, West Coast; .9, Interior.

969 Madagascar. Mauritius.

970 North America.

.1, Indians, Aborigines; .2, Lives of Indians; .3, Special Tribes; .4, Special States; .5, Government Relation and Treatment; .6, Special Subjects, Character, Civilization, Agriculture, etc. 8, Calc, Mica.
See 371.95, Education; 572.97, Ethnology; 497, Languages.

971 Canada. British America.

.1 **British Columbia.**

.2 **North-West Territory.**
.21, ; .22, Athabasca; .23, Alberta; .24, Saskatchewan; .25, Assiniboia; .26, Keewatin; .27, Manitoba; .28, N. E. Territory.

.3 **Ontario.**

.4 **Quebec.**

.5 **New Brunswick.**

.6 **Nova Scotia.**

.7 **Prince Edward Island.**

.8 **Newfoundland.**

.9 **Labrador.**

972 Mexico. Central America.

Period Divisions.

.01 Ancient Civilization. —— 1516.
1, Toltec; 2, Chichimec; 3, Tarascan; 4, Aztec; 5, Maya.
.02 Discovery and Spanish Rule. 1516–1810.
.03 Independence. 1810–1822.
.04 First Empire. Iturbide I. Pronunciamientos. 1822–1845.
.05 War with U. S. See also 973.6. 1845–1848.
.06 Constitution of '57. Reform. 1848–1861.
.07 French Intervention. 1861–1867.
.08 Later History. 1867 ——

Geographical Divisions.

.1 **Free Zone and Northern States.**
Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango.

.2 **Lower California and Islands.**

.3 **Central Pacific States.**
Sinaloa, Jalisco, Colima, Michoacan.

.4 **Interior States.**
Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos.

.5 **Mexico. Federal District.**

.6 **Southern Gulf States.**
Veracruz, Tabasco, Campeche, Yucatan.

.7 **Southern Pacific States.**
Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas.

.8 Central America.

.81 Guatemala.
.82 British Honduras. Balize.
.83 Honduras.
.84 San Salvador.
.85 Nicaragua.
.86 Costa Rica.

.9 West Indies.

.91 Cuba.
.92 Jamaica.
.93 Santo Domingo.
.94 Hayti.
.95 Porto Rico.
.96 Bahamas.
.97 Leeward Islands.
.98 Windward Islands, Barbadoes.
.99 Bermudas.

973. United States and Territories.

Period Divisions.

.1 Discovery. A. D. 896–1607.
Norse, Spanish, Dutch, French, English.
.2 Colonial. 1607–1775.
French and Indian Wars.
.3 Revolution and Confederation. 1775–1789.
.4 Constitutional Period. For U. S. Constitution, see 342.73. 1789–1812.
Federalists and Republicans. See 329.1.
Washington, 1789–1797; John Adams, 1797–1801; Jefferson, 1801–1809.
.5 War of 1812. 1812–1845.
Hartford Convention. 1814.
Nullification in South Carolina. 1832.
Annexation of Texas. 1845. See also 976.4, Texas.
Madison, 1809–1817; Monroe, 1817–1825; John Quincy Adams, 1825–1829; Jackson, 1829–1837; Van Buren, 1837–1841; Harrison, 1841; Tyler, 1841–1845.
.6 War with Mexico. 1845–1861.
The Wilmot Proviso. 1846.
Compromise of 1850.
Struggle in Kansas. 1854–1859. See also 978.1, Kansas.
Polk, 1845–1849; Taylor, 1849–1850; Fillmore, 1850–1853; Pierce, 1853–1857; Buchanan, 1857–1861.
.7 Civil War. Abolition of Slavery. Lincoln, 1861–1865.
.71 Political History. Causes. Results.
.72 Diplomatic History. Relations with other Nations.
.73 Special Campaigns and Battles.
.74 General Military History. Raising Troops. Armies.
.75 Naval History.
.76 War Meetings and Addresses. Celebrations. Anniversaries. Commemorations.
.77 Charities. Sanitary Commission. Hospital Sketches. Prison Life.
.78 Personal Narratives. Vindications. Secret Service.
.79 War Poetry, Dramas, Novels, and Sermons.
.8 Later 19th Century. 1865 ——.
Reconstruction. Civil Service Reform.
Johnson, 1865–1869; Grant, 1869–1877; Hayes, 1877–1881; Garfield, 1881; Arthur, 1881–1885; Cleveland, 1885 ——.

974 North-Eastern or North Atlantic. New England.

.1 **Maine.**

.2 **New Hampshire.**

.3 **Vermont.**

.4 **Massachusetts.**

.41 Berkshire.
.42 Franklin. Hampshire. Hampden.
.43 Worcester.
.44 Middlesex.
.45 Essex.
.46 Suffolk. Boston.
.47 Norfolk.
.48 Plymouth. Bristol.
.49 Barnstable. Dukes. Nantucket.

.5 **Rhode Island.**

.6 **Connecticut.**

INTENTIONAL SECOND EXPOSURE

972 Mexico. Central America.

Period Divisions.

.01	Ancient Civilization. 1, Toltec; 2, Chichimec; 3, Tarascan; 4, Aztec; 5, Maya.	— 1516.
.02	Discovery and Spanish Rule.	1516–1810.
.03	Independence.	1810–1822.
.04	First Empire. Iturbide I. Pronunciamientos.	1822–1845.
.05	War with U. S. See also 973.6.	1845–1848.
.06	Constitution of '57. Reform.	1848–1861.
.07	French Intervention.	1861–1867.
.08	Later History.	1867 —

Geographical Divisions.

.1 **Free Zone and Northern States.**
Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango.

.2 **Lower California and Islands.**

.3 **Central Pacific States.**
Sinaloa, Jalisco, Colima, Michoacan.

.4 **Interior States.**
Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos.

.5 **Mexico. Federal District.**

.6 **Southern Gulf States.**
Veracruz, Tabasco, Campeche, Yucatan.

.7 **Southern Pacific States.**
Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas.

.8 Central America.

.81 Guatemala.
.82 British Honduras. Balize.
.83 Honduras.
.84 San Salvador.
.85 Nicaragua.
.86 Costa Rica.

.9 West Indies.

.91 Cuba.
.92 Jamaica.
.93 Santo Domingo.
.94 Hayti.
.95 Porto Rico.
.96 Bahamas.
.97 Leeward Islands.
.98 Windward Islands, Barbadoes.
.99 Bermudas.

973. United States and Territories.

Period Divisions.

.1	Discovery. Norse, Spanish, Dutch, French, English.	A. D. 896–1607.
.2	Colonial. French and Indian Wars.	1607–1775.
.3	Revolution and Confederation.	1775–1789.
.4	Constitutional Period. For U. S. Constitution, see 342.73. Federalists and Republicans. See 329.1. Washington, 1789–1797; John Adams, 1797–1801; Jefferson, 1801–1809.	1789–1812.
.5	War of 1812. Hartford Convention. 1814. Nullification in South Carolina. 1832. Annexation of Texas. 1845. See also 976.4, Texas. Madison, 1809–1817; Monroe, 1817–1825; John Quincy Adams, 1825–1829; Jackson, 1829–1837; Van Buren, 1837–1841; Harrison, 1841; Tyler, 1841–1845.	1812–1845.
.6	War with Mexico. The Wilmot Proviso. 1846. Compromise of 1850. Struggle in Kansas. 1854–1859. See also 978.1, Kansas. Polk, 1845–1849; Taylor, 1849–1850; Fillmore, 1850–1853; Pierce, 1853–1857; Buchanan, 1857–1861.	1845–1861.
.7	Civil War. Abolition of Slavery. Lincoln, 1861–1865.	
.71	Political History. Causes. Results.	
.72	Diplomatic History. Relations with other Nations.	
.73	Special Campaigns and Battles.	
.74	General Military History. Raising Troops. Armies.	
.75	Naval History.	
.76	War Meetings and Addresses. Celebrations. Anniversaries. Commemorations.	
.77	Charities. Sanitary Commission. Hospital Sketches. Prison Life.	
.78	Personal Narratives. Vindications. Secret Service.	
.79	War Poetry, Dramas, Novels, and Sermons.	
.8	Later 19th Century. Reconstruction. Civil Service Reform. Johnson, 1865–1869; Grant, 1869–1877; Hayes, 1877–1881; Garfield, 1881; Arthur, 1881–1885; Cleveland, 1885 —.	1865 —.

974 North-Eastern or North Atlantic. New England.

.1 **Maine.**

.2 **New Hampshire.**

.3 **Vermont.**

.4 **Massachusetts.**

.41 Berkshire.
.42 Franklin. Hampshire. Hampden.
.43 Worcester.
.44 Middlesex.
.45 Essex.
.46 Suffolk. Boston.
.47 Norfolk.
.48 Plymouth. Bristol.
.49 Barnstable. Dukes. Nantucket.

.5 **Rhode Island.**

.6 **Connecticut.**

974.7 **New York.**

.71 New York City.

.72 Vicinity of New York City.
1, Long Island; 2, Kings Co.; 3, *Brooklyn;* 4, Queens Co.; 5, Suffolk Co.; 6, Richmond Co., Staten Island; 7, Westchester Co.; 8, Rockland Co.

.73 South-East Counties.
1, Orange, *West Point;* 2, Putnam; 3, Dutchess; 4, Ulster; 5, Sullivan; 6, Delaware; 7, Green; 8, *Catskill Mts.;* 9, Columbia.

.74 Middle East Counties.
1, Rensselaer, *Troy;* 2, Albany; 3, *Albany City;* 4, Schenectady; 5, Schoharie; 6, Montgomery; 7, Fulton; 8, Saratoga; 9, Washington.

.75 Northern Counties.
1, Warren, *Lake George;* 2, Hamilton; 3, Essex, *Adirondacks;* 4, Clinton; 5, Franklin; 6, St. Lawrence; 7, Jefferson; 8, *The Thousand Islands;* 9, Lewis.

.76 North Central Counties.
1, Herkimer; 2, Oneida; 3, *Utica;* 4, Madison; 5, Onondaga; 6, *Syracuse;* 7, Oswego; 8, Cayuga; 9, Seneca.

.77 South Central Counties.
1, Tompkins; 2, Cortland; 3, Chenango; 4, Otsego; 5, Broome; 6, *Binghamton;* 7, Tioga; 8, Chemung; 9, *Elmira.*

.78 West Central Counties.
1, Schuyler; 2, Yates; 3, Steuben; 4, Alleghany; 5, Livingston; 6, Ontario; 7, Wayne; 8, Monroe; 9, *Rochester.*

.79 Western Counties.
1, Orleans; 2, Genesee; 3, Wyoming; 4, Cattaraugus; 5, Chautauqua; 6, Erie; 7, *Buffalo;* 8, Niagara; 9, *Niagara Falls.*

.8 **Pennsylvania.**

.9 **New Jersey.**

975 South-Eastern or South Atlantic.

Including general works on "the South."

.1 **Delaware.**
.2 **Maryland.**
.3 **District of Columbia.**
.4 **West Virginia.**
.5 **Virginia.**
.6 **North Carolina.**
.7 **South Carolina.**
.8 **Georgia.**
.9 **Florida.** St Augustine

976 South Central or Gulf.

.1 **Alabama.**
.2 **Mississippi.**
.3 **Louisiana.**
.4 **Texas.**
.5
.6 **Indian Territory.**
.7 **Arkansas.**
.8 **Tennessee.**
.9 **Kentucky.**

977 North Central or Lake.

.1 **Ohio.**
.2 **Indiana.**
.3 **Illinois.**
.4 **Michigan.**
.5 **Wisconsin.**
.6 **Minnesota.**
.7 **Iowa.**
.8 **Missouri.**
.9

978 Western or Mountain.

Including general works on "the West."

.1 **Kansas.**
.2 **Nebraska.**
.3 **Dakota.**
.4
.5
.6 **Montana.**
.7 **Wyoming.**
.8 **Colorado.**
.9 **New Mexico.**

979 Pacific.

.1 **Arizona.**
.2 **Utah.**
.3 **Nevada.**
.4 **California.**
.5 **Oregon.**
.6 **Idaho.**
.7 **Washington.**
.8 **Alaska.**

INTENTIONAL SECOND EXPOSURE

974.7 **New York.**

.71 New York City.

.72 Vicinity of New York City.
1, Long Island; 2, Kings Co.; 3, *Brooklyn;* 4, Queens Co.; 5, Suffolk Co.; 6, Richmond Co., Staten Island; 7, Westchester Co.; 8, Rockland Co.

.73 South-East Counties.
1, Orange, *West Point;* 2, Putnam; 3, Dutchess; 4, Ulster; 5, Sullivan; 6, Delaware; 7, Green; 8, *Catskill Mts.;* 9, Columbia.

.74 Middle East Counties.
1, Rensselaer, *Troy;* 2, Albany; 3, *Albany City;* 4, Schenectady; 5, Schoharie; 6, Montgomery; 7, Fulton; 8, Saratoga; 9, Washington.

.75 Northern Counties.
1, Warren, *Lake George;* 2, Hamilton; 3, Essex, *Adirondacks;* 4, Clinton; 5, Franklin; 6, St. Lawrence; 7, Jefferson; 8, *The Thousand Islands;* 9, Lewis.

.76 North Central Counties.
1, Herkimer; 2, Oneida; 3, *Utica;* 4, Madison; 5, Onondaga; 6, *Syracuse;* 7, Oswego; 8, Cayuga; 9, Seneca.

.77 South Central Counties.
1, Tompkins; 2, Cortland; 3, Chenango; 4, Otsego; 5, Broome; 6, *Binghamton;* 7, Tioga; 8, Chemung; 9, *Elmira.*

.78 West Central Counties.
1, Schuyler; 2, Yates; 3, Steuben; 4, Alleghany; 5, Livingston; 6, Ontario; 7, Wayne; 8, Monroe; 9, *Rochester.*

.79 Western Counties.
1, Orleans; 2, Genesee; 3, Wyoming; 4, Cattaraugus; 5, Chautauqua; 6, Erie; 7, *Buffalo;* 8, Niagara; 9, *Niagara Falls.*

.8 **Pennsylvania.**

.9 **New Jersey.**

975 South-Eastern or South Atlantic.
Including general works on "the South."

.1 **Delaware.**
.2 **Maryland.**
.3 **District of Columbia.**
.4 **West Virginia.**
.5 **Virginia.**
.6 **North Carolina.**
.7 **South Carolina.**
.8 **Georgia.**
.9 **Florida.** St Augustine.

976 South Central or Gulf.

.1 **Alabama.**
.2 **Mississippi.**
.3 **Louisiana.**
.4 **Texas.**
.5
.6 **Indian Territory.**
.7 **Arkansas.**
.8 **Tennessee.**
.9 **Kentucky.**

977 North Central or Lake.

.1 **Ohio.**
.2 **Indiana.**
.3 **Illinois.**
.4 **Michigan.**
.5 **Wisconsin.**
.6 **Minnesota.**
.7 **Iowa.**
.8 **Missouri.**
.9

978 Western or Mountain.
Including general works on "the West."

.1 **Kansas.**
.2 **Nebraska.**
.3 **Dakota.** South, including Texas as a whole
.4 North
.5
.6 **Montana.**
.7 **Wyoming.**
.8 **Colorado.**
.9 **New Mexico.**

979 Pacific.

.1 **Arizona.**
.2 **Utah.**
.3 **Nevada.**
.4 **California.**
.5 **Oregon.**
.6 **Idaho.**
.7 **Washington.**
.8 **Alaska.**

980 South America.

981 Brazil.

982 Argentine Republic. Patagonia.

982.5 Patagonia

983 Chili.

984 Bolivia.

985 Peru.

986 U. S. of Colombia. New Granada. Ecuador.

987 Venezuela.

988 Guiana.

989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.

991 Malaysia.

.1, Borneo; .2, Celebes; .3, Moluccas or Spice Islands; .4, Philippine Islands.

992 Sunda.

.1, Sumatra; .2, Java.

993 Australasia.

.1, New Zealand; .2, New Caledonia; .3, Loyalty Islands; .4, New Hebrides; .5, Solomon Islands; .6, New Britain, New Ireland; .7, Admiralty Islands.

994 Australia.

.1, West Australia; .2, South Australia; .3, Queensland; .4, New South Wales; .5, Victoria; .6, Tasmania.

995 New Guinea.

996 Polynesia.

.1, Fiji, Friendly and Navigator's Islands; .2, Society, Austral and Cook's Islands; .3, Marquesas Islands and Low Archipelago; .4, Minor Polynesian Islands; .5, **Micronesia**; .6, Caroline and Pelew Islands; .7, Ladrone Islands; .8, Marshall and Gilbert Islands; .9, Hawaii.

997 Isolated Islands.

998 Arctic Regions.

999 Antarctic Regions.

RELATIV SUBJECT INDEX

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

Topics accidentally omitted from the index will be found in a supplement at the end.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

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Table 1.—Geographical Divisions.

The following subjects may all be divided geographically by adding the geographical numbers: i. e., 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be farther sub-divided as minutely as wished, like the history, 940–999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geographical numbers are formed by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixed to the number given in the table below; e. g.: Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix the 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. State, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. State.

A number of unimportant topics, e. g. minor religious sects, which may be divided geographically, are omitted from this table.

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923.5 Admirals' lives.
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922.3 " " " biography.
911. Ancient geography.
283. Anglican church.
922.3 " " biography.
591.9 Animals, geographical distribution.
328. Annals, legislative.
913. Antiquities, archæology.
922.3 Archbishops' lives, Anglican.
922.2 " " Roman catholic.
720.9 Architecture, history of.
923.5 Army biography.
709. Art, history of.
362.9 Asylums.
027.2 Atheneum libraries.
912. Atlases.
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286.2 " Free will.
286.3 " Seventh day.
922.6 " lives.
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015. " special countries.
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655.6 Copyright.
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549.9 " " minerals "
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373.	" private academies.
379.	" public school.
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923.1	Emperors' lives.
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287.6	" Methodist, church.
922.7	" " " biog.
572.9	Ethnology.
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376.9	Female education.
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923.3	Financiers' lives.
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327.	" relations.
354.	" states, administration.
560.9	Fossils, geographical distribution.
027.9	Free news rooms.
027.4	" public libraries.
289.6	Friends or quakers.
922.8	" " " biography.
027.0	General libraries, hist., reports, etc.
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560.9	" " " fossils.
549.9	Geographical dist. of minerals.
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655.4	Publishing, history of.
289.6	Quakers.
922.8	" lives.
724.5	Queen Anne architecture.
923.1	Queens' lives.
572.9	Races of men.
923.8	Railroad officials' lives.
027.4	Rate supported libraries.
027.9	Reading rooms, free.
364.9	Reformatory institutions.
284.1	Reformed church.
285.7	" (Dutch) church in Amer.
922.4	" " " biography.
327.	Relations, foreign.
27	Religious history.
724.1	Renaissance architecture.
282.	Roman Catholic church.
922.2	" " " biography.
724.8	Romanesque revival, architecture.
923.1	Rulers, Chief, lives.
628.09	Sanitary engineering, history, etc.
284.7	Scandinavian church.
922.4	" " biography.
027.8	School libraries.
923.7	" officers' biography.
373.	Schools, private.
379.	" public, system.
508.	Scientific travels.
366.9	Secret societies.
373.	Seminaries, private.
923.5	Service, Civil, biography.
286.3	Seventh day baptist.
922.6	" " " biography.
289.8	Shakers.
922.8	" biography.
653.09	Shorthand, history.
326.9	Slavery, history.
367.9	Social clubs.
366.9	Societies, secret.
027.2	Society libraries.
923.5	Soldiers' lives.
379.	State education.
027.5	" libraries.
923.2	Statesmen's lives.
31	Statistics.
312	" of population.
027.3	Subscription libraries.
324.	Suffrage.
027.8	Sunday school libraries.
289.4	Swedenborgians.
922.8	" biography.
284.7	Swedish church.
922.4	" " biography.
724.7	Swiss architecture.
923.7	Teachers' lives.
607.	Technical schools.
724.7	Timber architecture.
027.4	Town libraries, public.
91	Travel, description.
508	" scientific.
341.2	Treaties, texts and history.
724.4	Tudor architecture.
288.	Unitarian church.
922.8	" biography.
289.1	Universalist church.
922.8	" " biography.
378.	Universities, history, reports, etc.
027.7	University libraries.
724.4	Victorian Gothic, architecture.
324.	Voting.
922.4	Waldenses biography.
553.70	Waters, mineral.
376.9	Woman's education.
591.9	Zoölogy, geographical.

Table 2.— Form Divisions.

The form distinctions 01, Philosophy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

The following is an alphabetical list of these divisions, and the figures prefixed should be *added* to the number of the subject to be sub-divided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06 Academies.
06 Acts of societies.
04 Addresses.
06 Associations.
02 Charts. Tabular views. Compends.
08 Collected works.
08 Collections.
02 Compends.
03 Concordances.
03 Cyclopedias.
03 Dictionaries.
04 Discourses.
04 Disputations.
07 Education.
03 Encyclopedias.
04 Essays.
06 Exhibitions.
08 Extracts.
09 History.
04 Lectures.
04 Letters.
03 Lexicons.
08 Libraries, collections, series.
05 Magazines.
02 Manuals.
08 Maxims.
01 Methods.
08 Miscellanies.
07 Museums.
02 Outlines.
04 Papers.
05 Periodicals.
01 Philosophy.
08 Polygraphy.
06 Reports of societies.
05 Reviews.
07 Schools.
07 Seminaries.
06 Societies.
07 Study.
02 Systems.
07 Teaching.
01 Theories.
04 Tracts.
07 Training schools.
06 Transactions.
08 Treatises.
01 Utility.

Table 3. — Languages.

The table below includes all languages mentioned in the classification, except those in 494—499, not yet sub-divided.

Any language in this table may be sub-divided like 420, English.

Any philological topic in the index may be transferred to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to sub-divide the language is to prefix the language figures as given in this table to the philological numbers given in Table 4.

All three methods give the same result.

491.58 Afghani.
492.8 Amharic.
429. Anglo Saxon.
492.7 Arabic.
492.1 Aramaic.
491.54 Armenian.
491.68 Armorican.
492.19 Assyrian.
491.52 Avestan, Zend.
492.19 Babylonian.
491.52 Bactrian, Old.
491.68 Bas Breton.
491.69 Basque.
491.44 Bengali.
491.86 Bohemian.
491.68 Breton, Bas.
491.81 Bulgarian.
492.6 Carthaginian.
449.9 Catalan.
492.2 Chaldee.
491.81 Church Slavonic.
493.2 Coptic.
491.67 Cornish.
491.83 Croatian.

492.19 Cuneiform.
491.65 Cymric Group.
491.66 " or Welsh.
439.8 Danish.
439.4 Deutsch, Platt.
439.3 Dutch.
493.1 Egyptian, Old.
42 English.
427.01 " Old.
491.61 Erse, Gadhelic group.
491.63 " Gaelic.
492.8 Ethiopic.
477.5 Etruscan.
439.6 Faroese.
439.3 Flemish.
44 French.
447.01 " Old.
439.2 Frisian.
491.61 Gadhelic Group.
491.63 Gaelic or Scotch.
43 German.
437.02 " Middle High.
437.01 " Old High.
439.9 Gothic.
48 Greek.
489. " Modern.
491.47 Gujerati.
492.4 Hebrew.
492.9 Himyaritic.
491.43 Hindi.
491.1 Hindu languages.
491.43 Hindustani.
491.53 Huzwaresh.
439.6 Icelandic.
491.1 Indic Group.
491.62 Irish.
45 Italian.
492.4 Jewish.
491.83 Kroatian.
491.57 Kurdish.
47 Latin.
479. " Medieval.
491.93 Lettish.
491.92 Lithuanian.
491.93 Livonian.
439.3 Low Dutch.
479 " Latin.
491.64 Manx.
491.46 Marathi.
479. Medieval Latin.
437.02 Middle High German.
489. Modern Greek.
491.55 " Persian.
491.87 Moravian.
492.19 Nineveh Cuneiform.
439.6 Norse, Old.
439.8 Norwegian.
491.52 Old Bactrian.
493.1 " Egyptian.
427.01 " English.
447.01 " French.
437.01 " High German.
439.6 " Norse.
491.51 " Persian.
491.91 " Prussian.
439.2 " Saxon.
491.45 Orissa.
491.56 Ossetic.
491.3 Pali.
491.42 Panjabi.
491.53 Pehlevi.
491.55 Persian, Modern.
491.51 " Old.
492.3 Peshito.
492.6 Phenician.
439.4 Platt Deutsch.
491.89 Polabian.
491.85 Polish.
469. Portuguese.
491.2 Prakrit.
449. Provençal.
491.91 Prussian, Old.
491.58 Pushtu.
459.9 Rhaeto-Romansch.
489. Romaic.
459. Roumanian.
459.9 Rumansh.
491.7 Russian.
491.79 Ruthenian.
492.5 Samaritan.
491.2 Sanskrit.
429. Saxon, Anglo-.
439.2 Saxon, Old.
439.5 Scandinavian languages.
491.63 Scotch or Gaelic.
491.82 Servian.
491.41 Sindhi.
491.48 Singhalese.
491.81 Slavonic, Church.
491.87 Slovakian.
491.84 Slovenian.
491.88 Sorbian.
46 Spanish.
439.7 Swedish.
492.3 Syriac.
491.45 Uriya.
459. Wallachian.
491.66 Welsh.
491.52 Zend.

Table 4.—Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e. g.:

English orthography	421
Provençal "	449.1
Arabic "	492.71
Gaelic "	491.631
Syntax of English verbs	425.8
" Modern Greek verbs	489.58
" Danish "	439.858
" Armenian "	491.5458
Inflection of English nouns	425.15
" Anglo-Saxon nouns	429.515
" Hebrew "	492.4515
" Welsh "	491.66515

18 Abbreviations.
12 Ablaut.
16 Accent, pronunciation.
61 " prosody.
51 Accidence.
25 Accusative, etymology.
55 " syntax.
26 Adjectival forms, derivation.
516 Adjectives, inflection.
56 " syntax.
29 Adverbs, derivation.
59 " syntax.
22 Affixes, derivation.
11 Alphabet.
21 Analogy.
53 Analysis, grammar.
67 Antistrophe, prosody.
28 Aorist, etymology.
58 " syntax.
7 Archaisms.
709 Argot.
53 Arrangement of words and clauses.
56 Articles, syntax.
12 Aspirates.
28 Augment, etymology.
83 Barbarisms.
83 Blunders.
25 Case endings, derivation.
55 Cases, syntax.
87 Chrestomathies.
53 Clauses, arrangement of.
516 Comparison, inflection.
26 Comparison, signs of, derivation.
54 Conditional sentences.
518 Conjugation.
29 Conjunctions, etymology.
59 " syntax.
28 Conjunctive mood, etymology.
58 " " syntax.
13 Consonants.
12 Crasis.
25 Dative case, etymology.
55 " " syntax.
515 Declension of nouns.
2 Derivation of words.
7 Dialects.
3 Dictionaries.
25 Diminutives, derivation.
12 Diphthongs.
17 Diplomatics.
701 Early forms of language.
86 Elementary readers.
53 Ellipsis.
52 Enallage.
83 Errors of speech.
2 Etymology, derivation.
51 " inflection.
89 Examination papers.
63 Feet, prosody.
64 Figures of prosody.
82 First lessons.
63 Foot, prosody.
24 Foreign elements.
25 Gender, etymology.
25 Genitive case, etymology.
55 " " syntax.
7 Glossaries, dialects.
3 " language.
83 Grammatical errors.
65 Hexameters.
64 Hiatus.
54 Hypothetical sentences.
31 Idioms.
88 Individual authors, texts.
28 Infinitive mood, etymology.
58 " " syntax.
51 Inflection.
516 " of adjectives.
515 " " nouns.
517 " " pronouns.
518 " " verbs.
17 Inscriptions.
29 Interjections, etymology.
59 " syntax.
29 Interrogatives, etymology.
59 " syntax.
21 Laws of language.
1 Letters, alphabet.

3 Lexicography.
3 Lexicons.
17 Manuscripts.
65 Meters, prosody.
28 Moods, signs of, derivation.
58 " syntax.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relative pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form.
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
8 Text books.
68 " " for writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.
892.8	Amharic.
892.7	Arabic.
892.1	Aramaic.
891.54	Armenian.
891.68	Armorican.
892.19	Assyrian.
891.52	Avestan, Zend.
892.19	Babylonian.
891.52	Bactrian, Old.
891.68	Bas Breton.
891.69	Basque.
891.44	Bengali.
891.86	Bohemian.
891.68	Breton, Bas.
891.81	Bulgarian.
892.6	Carthaginian.
849.9	Catalan.
892.2	Chaldee.
891.81	Church Slavonic.
893.2	Coptic.
891.67	Cornish.
891.83	Croatian.
892.19	Cuneiform.
891.65	Cymric Group.
891.66	" or Welsh.
839.8	Danish.
839.4	Deutsch, Platt.
839.3	Dutch.
893.1	Egyptian, Old.
82	English.
891.61	Erse, Gadhelic group.
891.63	" Gaelic.
892.8	Ethiopic.
839.6	Faroese.
839.3	Flemish.
84	French.
839.2	Frisian.
891.61	Gadhelic Group.
891.63	Gaelic or Scotch.
83	Germar.
839.9	Gothic.
889.	Greek, Modern.
891.47	Gujerati.
892.4	Hebrew.
892.9	Himyaritic.
891.43	Hindi.
891.1	Hindu languages.
891.43	Hindustani.
891.53	Huzwaresh.
839.6	Icelandic.
891.1	Indic Group.
891.62	Irish.
85	Italian.
892.4	Jewish.
891.83	Kroatian.
891.57	Kurdish.
879.	Latin, Medieval.
891.93	Lettish.
891.92	Lithuanian.
891.93	Livonian.
839.3	Low Dutch.
879	" Latin.
891.64	Manx.
891.46	Marathi.
879.	Medieval Latin.
889.	Modern Greek.
891.55	" Persian.
891.87	Moravian.
892.19	Nineveh Cuneiform.
839.6	Norse, Old.
839.8	Norwegian.
891.52	Old Bactrian.
893.1	" Egyptian.
839.6	" Norse.
891.51	" Persian.
891.91	" Prussian.
839.2	" Saxon.
891.45	Orissa.
891.56	Ossetic.
891.3	Pali.
891.42	Panjabi.
891.53	Pehlevi.
891.55	Persian, Modern.
891.51	" Old.
892.3	Peshito.
892.6	Phenician.
839.4	Platt Deutsch.
891.89	Polabian.
891.85	Polish.
869.	Portuguese.
891.2	Prakrit.

849.	Provençal.
891.91	Prussian, Old.
891.58	Pushtu.
859.9	Rhaeto-Romansch.
889.	Romaic.
859.	Roumanian.
859.9	Rumansh.
891.7	Russian.
891.79	Ruthenian.
892.5	Samaritan.
891.2	Sanskrit.
839.2	Saxon, Old.
839.5	Scandinavian languages.
891.63	Scotch or Gaelic.
891.82	Servian.
891.41	Sindhi.
891.48	Singhalese.
891.81	Slavonic, Church.
891.87	Slovakian.
891.84	Slovenian.
891.88	Sorbian.
86	Spanish.
839.7	Swedish.
892.3	Syriac.
891.45	Uriya.
859.	Wallachian.
891.66	Welsh.
891.52	Zend.

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"To learn to classify is in itself an education" — ALEX. BAIN

Decimal Classification

and

Relativ Index

for libraries, clippings, notes, etc.

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Fourth edition, revised and enlarged

By

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EXPLANATION

The field of knowledge is divided into nine main classes, and these are numberd by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes, are markt naught, and form a tenth class. Each class is similarly separated into nine divisions, general works belonging to *no* division having naught in place of the division number. Divisions are similarly divided into nine sections, and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numberd 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimal. Since each subject has a definit number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry, and follows 511 Arithmetic.

Summaries. The first summary shows the 10 Classes into which all topics are divided. The second summary shows the nine Divisions of each of the 10 classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow 10 pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections, with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be lookt up in the **full tables of sub-sections**; never in the summaries, which are really only a table of contents of the complete tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alfabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternativ names for the heads, and many other entries that seemd likely to help a reader find readily the subject sought. Tho the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detaild illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction.

INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

Origin and growth.— The plan of the following Classification and Index was developt early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamflets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increast without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection containd on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitiv to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became anti-quated soon after being finisht. The methods used involvd frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explaind proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowd to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamflets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides

to the proper page of a bound book. This difficult problem has been solvd by using no reference marks except the simplest symbols known to the human mind — the Arabic numerals — and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamflets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users askt for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.— The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

		No. of pages				
Edition	Date	Preface, etc.	Tables	Index	Total	Copies printed
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

What is the system?— A Relativ Index[1] with a subject classification, so numberd or letterd that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

[1]Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system — the relativ index, on which all else hinges — had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.

Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.— The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr. Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemd good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.— The decimal form means simply that the heads are groupt and numberd with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

Relativ Subject Index.— The alfabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliografies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determind, reference to that head in the Index gives the class number which should be assignd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamflets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, thruout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referd to 337, or some one of its sub-divisions.

Had he lookt for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examin the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves, the difference would be clearly seen.

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a clast catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followd, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designd and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assignd to the same place, and that any reader seeking these books shall be referd to that place. If this is done, all requirements of a good classification are fild. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.— Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.— The essential complement of the Subject Index is the tables of classification, so mapt out as to show in four ways — viz., by size of type, face of type, indention, and number of figures prefixt — the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numberd by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are markt *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considerd independently, and each one is separated again into nine special divisions of the main subject, numberd from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numberd in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamflet belonging to the library. All geometries are thus numberd 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numberd 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.— The selection and arrangement of the many thousand heads of the classification cannot be explaind in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preservd in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.— Wherever practicable, heads have been so arranged that each subject is preceded and followd by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followd in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.— Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geografical division, and a zero followd by another figure is added to give a division into periods.

As all history is by countries, and as minute geografical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no further geografical division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

New subjects.—When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.—In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

Form distinctions.—The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on

divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followd by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoölogical magazine is 590.5, not 590.05.

Minute classification.—On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestiond, if the user knows just what it is. With this plan it is not only practicable, but comparativly easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be *greatly helpt by the most minute classing*. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if

there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoölogy, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.— Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are groupt together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then

must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alfabetical lists of (1) subjects, with class number of each, which may be subdivided geografically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliografy of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliografy of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.— We have not sacrificed utility in order to force sub-

jects on the decimal procrustean bed. *Decimals have been used as servants, not as masters.* When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemd the most useful way, all things considerd. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemd more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and profetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, tho indention and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful

0 to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

Relativ location.—Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamflet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject.[1] In finding books, the printed numbers on the backs are followd, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numberd, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numberd and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followd by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raisd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

[1] For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.

book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.— Most libraries have abandond close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are groupt in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefixt to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solvd, there is no conflict between the size problem and the Decimal Classification.

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the clast catalog on cards.

Name catalog.— In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single colum as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the colum for the class number wanted.

Shelf list.— In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in colums accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog.— In the card catalog of subjects the classification is mapt out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alfabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for convenience the name as well as the number of the subject; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

Dictionary catalog.— While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensiv to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandond as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliografy. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemd the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

ADVANTAGES

Shelves.— The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangment, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything else. The advantages here have been already mentiond under Relativ location, p. 19.

Shelf list.— By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be

present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gaind with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.— From the accession book, tables of the number of books added on each subject are readily made from the shelf mark colums. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelvd but also what it is about.

Pamflets.— These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelvd in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurd, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncatalogd pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferd, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.— The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.— Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,— for the check box is necessary as a record of loans,— is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.— In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.— When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowd, without interfering in any appreciable degree with the circulation of the books. The methods employd for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently markt to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.— The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamflets alone, bringing order out of chaos, and solving this vext and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.— Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusiv use of Arabic numerals thruout the shelves,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.— Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamflet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assignd to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great service in working up this plan of special endowments.

Summary.— The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv; more easily understood, rememberd, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamflets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thuroly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

PLAN OF BOOK

Tables.— The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be lookt up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

Index.— Next is an alfabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternativ names for heads, and any other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.— In thinking or speaking of the class numbers, to avoid confusion **always divide at the decimal point, and name it**; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 as 272, while "two seventy, point two" can never be misunderstood.

USE OF TABLES AND INDEX

Familiarity with classification.— Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. **As a check against error, use the index freely,** even tho familiar with the scheme.

Subject of a book.— To find out the subject of a book consult: —

1. **The title,** since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone, but always examin also

2. **Table of contents,** which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters,** or marginal topics.

4. **Preface.**— Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5. **Reference books.** — If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**— If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult.

7. **Specialists.**— Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.— 1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27[9].

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould*, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 28[7].

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discust, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.— Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geografical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be alterd. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, —a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.— In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers, substitute 8

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently markt 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.—The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,—has led most libraries to arrange books under each class number alfabetically by authors, or in local history by towns, or in biografy by biografees. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C: A. Cutter, and known as the Cutter numbers.

Time numbers.—A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.[1]

[1] Full explanations of the best methods for both arrangements, with complete tables, can be had of the publishers of this work.

Accession order.—A third arrangement — simpler but otherwise less desirable — is in order of accession; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numberd 1, might be so written as to confuse with subsection 513.1, but 513 A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation; e. g. $5\frac{13}{1}$ or 513-1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considerd in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparativ ease and cost of introducing them into any given library.

Cautions.—Having decided to adopt the system in its decimal form as workt out and printed, it must be determind whether to adopt certain variations, noted in 1–5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple

matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compeld to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learnd if numbers have been already assignd with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimd at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the coöperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the "relativ index system," oftener called the "Dewey system." For its essentials see p. 8[7]–9.

1. **Letter notations for changes.**—To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e. g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them as indext.** When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e. g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils.—In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefixt to show their special character. This gives J alone as the class number for juvenil fiction, and e. g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,

to have the J books in alfabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

Biografy.— A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz.; to put all biografies in one alfabet of names of *persons written about*, marking all the books simply B for class number, and indicating the subject or biografee by a Cutter book number; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

Travel.— By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

Parallel libraries.— This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be groupt under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

Combining language and literature.— The same principle can be applied also in combining each language with its literature, if it is

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 820, 821, etc. For a better plan see Broken order, p. 36^7–37^4.

Reference library.— To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phœnix library of Columbia College. This has P prefixt to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial 0 in the class "General works" was formerly recommended; e. g. 51 instead of 051 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial 0 is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determin the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinisht number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2. Contractions for specialists.— The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

practical gain to justify the labor if a great quantity of slips must be numberd. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "—5". A body of such notes can be inserted together in their place in an index at 839.715, with a colord card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. **Use of alfabet or chronology for final subdivisions.**— While our plan is decimal as distinguisht from the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alfabetical index. Frequently in minute divisions it is economy to arrange alfabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biografy, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e. g. in chemistry, to put all the metals in one alfabet under 546.3, instead of using the numbers 546.3–.99. If this change is wisht, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alfabet under 546. Such use of the alfabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alfabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alfabetically by elements," e. g.:—

546.3	**Metals.**	**Arrange metals alfabetically.**
·31	Alkali group.	
·32	Potassium.	
·33	Sodium.	
·33	Lithium.	
·34	Rubidium.	
·35	Caesium.	

Then find each of these heads in the index and cancel all figures after 546.3, e. g.:—

Potassium, inorganic chemistry, 546.32
Rubidium, " " 546.35

This plan has special value in this place, as new elements are discoverd from time to time, and can readily be inserted in alfabetic place. Still many chemists think it valuable to have similar metals groupt together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number

for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 14[4].

4. **Broken order.**— Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biografy are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gaind, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have markt on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. **Pro and con division of topics.**— It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz. 324.3, 324.3c, 324.3p; or if + and — ar used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is groupt into its final classes, see page 30.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguin hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently publisht, is reported "not in stock," when such an arrangement by subjects would have reveald its place at once. Specialists often find on the shelves books that they would never have orderd, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.— The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alfabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog,

the cards of each class being further arranged, as in case of the scrap sheets, according to any alfabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamflets are already manufactured. Details cannot be given here, but may be found in the full descriptiv and illustrated catalog of the Library Bureau, 146 Franklin street, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10x15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 7½ x 12½, or to the L, 20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assignd are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.— The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentiond to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points alterd, the essential character of the plan has remaind unchanged from the first. Doubtless

other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably faild to meet some objections which may be raisd, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involvd in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been renderd in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciativ criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless receivd suggestions and gaind ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential

features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangement of the St Louis Library has been followd. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hope that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

MELVIL DEWEY

NEW YORK STATE LIBRARY
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

First Summary

Classes

0. GENERAL WORKS
1. PHILOSOPHY
2. RELIGION
3. SOCIOLOGY
4. PHILOLOGY
5. NATURAL SCIENCE
6. USEFUL ARTS
7. FINE ARTS
8. LITERATURE
9. HISTORY

SECOND SUMMARY

DIVISIONS.

000 General Works.
010 BIBLIOGRAPHY.
020 LIBRARY ECONOMY.
030 GENERAL CYCLOPEDIAS.
040 GENERAL COLLECTIONS.
050 GENERAL PERIODICALS.
060 GENERAL SOCIETIES.
070 NEWSPAPERS.
080 SPECIAL LIBRARIES. POLYGRAPHY.
090 BOOK RARITIES.

100 Philosophy.
110 METAPHYSICS.
120 SPECIAL METAPHYSICAL TOPICS.
130 MIND AND BODY.
140 PHILOSOPHICAL SYSTEMS.
150 MENTAL FACULTIES. PSYCHOLOGY.
160 LOGIC.
170 ETHICS.
180 ANCIENT PHILOSOPHERS.
190 MODERN PHILOSOPHERS.

200 Religion.
210 NATURAL THEOLOGY.
220 BIBLE.
230 DOCTRINAL THEOL. DOGMATICS.
240 DEVOTIONAL AND PRACTICAL.
250 HOMILETIC. PASTORAL. PAROCHIAL.
260 CHURCH. INSTITUTIONS. WORK.
270 RELIGIOUS HISTORY.
280 CHRISTIAN CHURCHES AND SECTS.
290 NON-CHRISTIAN RELIGIONS.

300 Sociology.
310 STATISTICS.
320 POLITICAL SCIENCE.
330 POLITICAL ECONOMY.
340 LAW.
350 ADMINISTRATION.
360 ASSOCIATIONS AND INSTITUTIONS.
370 EDUCATION.
380 COMMERCE AND COMMUNICATION.
390 CUSTOMS. COSTUMES. FOLK-LORE.

400 Philology.
410 COMPARATIVE.
420 ENGLISH.
430 GERMAN.
440 FRENCH.
450 ITALIAN.
460 SPANISH.
470 LATIN.
480 GREEK.
490 MINOR LANGUAGES.

500 Natural Science.
510 MATHEMATICS.
520 ASTRONOMY.
530 PHYSICS.
540 CHEMISTRY.
550 GEOLOGY.
560 PALEONTOLOGY.
570 BIOLOGY.
580 BOTANY.
590 ZOOLOGY.

600 Useful Arts.
610 MEDICINE.
620 ENGINEERING.
630 AGRICULTURE.
640 DOMESTIC ECONOMY.
650 COMMUNICATION AND COMMERCE.
660 CHEMICAL TECHNOLOGY.
670 MANUFACTURES.
680 MECHANIC TRADES.
690 BUILDING.

700 Fine Arts.
710 LANDSCAPE GARDENING.
720 ARCHITECTURE.
730 SCULPTURE.
740 DRAWING. DESIGN. DECORATION.
750 PAINTING.
760 ENGRAVING.
770 PHOTOGRAPHY.
780 MUSIC.
790 AMUSEMENTS.

800 Literature.
810 AMERICAN.
820 ENGLISH.
830 GERMAN.
840 FRENCH.
850 ITALIAN.
860 SPANISH.
870 LATIN.
880 GREEK.
890 MINOR LANGUAGES.

900 History.
910 GEOGRAPHY AND DESCRIPTION.
920 BIOGRAPHY.
930 ANCIENT HISTORY.
940 Modern. EUROPE.
950 ASIA.
960 AFRICA.
970 NORTH AMERICA.
980 SOUTH AMERICA.
990 OCEANICA AND POLAR REGIONS.

THIRD SUMMARY SECTIONS

GENERAL WORKS.

Limited to *none* of the nine classes.

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003
004
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006
007
008
009

Left blank for local history or biography, etc., where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 Bibliography.
011 General Bibliographies.
012 Of Special Authors.
013 " " Classes of Authors.
014 " " Forms, Pseudonyms, etc.
015 " " Countries.
016 " " Subjects.
017 Subject Catalogs.
018 Author "
019 Dictionary "

020 Library Economy.
021 Scope and Founding.
022 Buildings.
023 Government and Service.
024 Regulations for Readers.
025 Administration. Departments.
026 Special Subject Libraries, etc.
027 General Libraries. Reports, etc.
028 Reading and Aids.
029 Literary Methods.

030 General Cyclopedias.
031 American.
032 English.
033 German.
034 French.
035 Italian.
036 Spanish.
037 Slavic.
038 Scandinavian.
039 Minor Languages.

040 General Collected Essays, etc.
041 American.
042 English.
043 German.
044 French.
045 Italian.
046 Spanish.
047 Slavic.
048 Scandinavian.
049 Minor Languages.

050 General Periodicals.
051 American.
052 English.
053 German.
054 French.
055 Italian.
056 Spanish.
057 Slavic.
058 Scandinavian.
059 Minor Languages.

060 General Societies.
061 American.
062 English.
063 German.
064 French.
065 Italian.
066 Spanish.
067 Slavic.
068 Scandinavian.
069 Minor Languages.

070 Newspapers. Journalism.
071 American.
072 English.
073 German.
074 French.
075 Italian.
076 Spanish.
077 Slavic.
078 Scandinavian.
079 Minor Languages.

080 Special Libraries. Polygraphy.
081
082
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089

Left blank to be used (if preferred to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i.e. are bound pamphlets, essays, addresses, scrap or note books, etc., too general in scope to go under any single class. Juveniles could be put here, but are better kept in a separate class, marked J.

090 Book Rarities.
091 Manuscripts.
092 Block Books.
093 Early Printed. Incunabula. See 655
094 Rare Printing. Privately Printed.
095 Rare Binding.
096 Rare Illustrations or Materials.
097 Ownership. Book Plates.
098 Prohibited. Lost. Imaginary.
099 Other Rarities. Curiosa.

PHILOSOPHY.

100 Philosophy.
101 Utility.
102 Compends.
103 Dictionaries.
104 Essays.
105 Periodicals.
106 Societies.
107 Education.
108 Polygraphy.
109 History.

110 Metaphysics.
111 Ontology.
112 Methodology.
113 Cosmology.
114 Space.
115 Time.
116 Motion.
117 Matter.
118 Force.
119 Quantity. Number.

120 Metaphysical Topics.
121 Knowledge, origin, and limits.
122 Causation. Cause and effect.
123 Liberty and Necessity.
124 Teleology. Final causes.
125 Infinite and finite.
126 Consciousness. Personality.
127 Unconsciousness. Automata.
128 The soul.
129 Origin of the individual soul.

130 Mind and Body.
131 Mental physiology and hygiene.
132 Mental derangements.
133 Delusions. Witchcraft. Magic.
134 Mesmerism. Clairvoyance.
135 Sleep. Dreams. Somnambulism.
136 Mental Characteristics.
137 Temperaments.
138 Physiognomy.
139 Phrenology. Mental photography.

140 Philosophical Systems.
141 Idealism. Transcendentalism.
142 Critical.
143 Intuitionalism.
144 Empiricism.
145 Sensationalism.
146 Materialism. Positivism.
147 Pantheism. Monism.
148 Eclecticism.
149 Other philosophical systems.

150 Mental Faculties.
151 Intellect.
152 Sense.
153 Understanding.
154 Memory.
155 Imagination.
156 Reason.
157 Sensibility. Emotions.
158 Instincts.
159 Will.

160 Logic.
161 Inductive.
162 Deductive.
163 Assent.
164 Symbolic. Algebraic.
165 Sources of error. Fallacies.
166 Syllogism. Enthymeme.
167 Hypothesis.
168 Argument and persuasion.
169 Analogy. Correspondence.

170 Ethics.
171 Theory of ethics.
172 State ethics.
173 Family ethics.
174 Professional and business ethics.
175 Ethics of amusements.
176 Sexual ethics.
177 Social ethics.
178 Temperance.
179 Other ethical topics.

180 Ancient Philosophers.
181 Oriental.
182 Early Greek.
183 Sophistic and Socratic.
184 Platonic.
185 Aristotelian.
186 Pyrrhonist and New Platonist.
187 Epicurean.
188 Stoic.
189 Early Christian and medieval.

190 Modern Philosophers.
191 American.
192 British.
193 German.
194 French.
195 Italian.
196 Spanish.
197 Slavic.
198 Scandinavian.
199 Other modern.

RELIGION.

200 Religion.
201 Philosophy. Theories.
202 Compends.
203 Dictionaries. Cyclopedias.
204 Essays. Lectures. Addresses.
205 Periodicals. Reviews.
206 Societies. Transactions.
207 Education. Theological Schools.
208 Polygraphy. Collections.
209 History of Theology.

210 Natural Theology.
211 Deism and Atheism.
212 Pantheism. Theosophy.
213 Creation. Evolution.
214 Providence. Theodicy. Fatalism.
215 Religion and Science.
216 Evil. Depravity.
217 Prayer.
218 Future Life. Immortality.
219 Analogies. Correspondences.

220 Bible.
221 Old Testament.
222 *Historical Books.*
223 *Poetical* „
224 *Prophetical* „
225 New Testament.
226 *Gospels and Acts.*
227 *Epistles.*
228 *Apocalypse.*
229 Apocrypha.

230 Doctrinal. Dogmatics.
231 God. Unity. Trinity.
232 Christ. Christology.
233 Man. The Fall. Sin.
234 Salvation. Soteriology.
235 Angels. Devils. Satan.
236 Eschatology. Death. Judgment.
237 *Future State.*
238 Creeds. Confessions.
239 Apologetics.

240 Practical. Devotional.
241 Didactic. Catechisms.
242 Meditative.
243 Hortatory.
244 Devout miscellany. Fiction.
245 Hymnology. Religious Poetry.
246 Ecclesiology. Symbolism.
247 Sacred Furniture, Vessels, etc.
248 Personal Religion. Asceticism.
249 Family Devotions.

250 Homiletic. Pastoral. Parochial.
251 Homiletics. Preaching.
252 Sermons.
253 Pastoral Visitations. Evangelistic.
254 Clerical Support. Celibacy.
255 Brotherhoods and Sisterhoods.
256 Societies for Parish Work. Guilds.
257 Parochial Schools, Libraries, etc.
258 Parish Care of Sick, Fallen, etc.
259 Other Ministrations and Work.

260 Church. Institutions. Work.
261 Church.
262 *Ecclesiastical polity.*
263 Sabbath. Lord's Day. Sunday.
264 Public Worship. Ritual.
265 Sacraments. Ordinances.
266 Missions. Home and Foreign.
267 Associations. Y. M. C. A., etc.
268 Sunday Schools.
269 Revivals. Retreats.

270 Religious History.
271 Monastic Orders.
272 Persecutions.
273 Doctrines. Dogmas. Heresies.
274 Europe.
275 Asia.
276 Africa.
277 North America.
278 South America.
279 Oceanica.

280 Christian Churches & Sects.
281 Primitive and Oriental.
282 Roman Catholic.
283 Anglican and American P. E.
284 Continental Protestant.
285 Presbyterian. Congregational.
286 Baptist.
287 Methodist.
288 Unitarian.
289 Minor Christian Sects.

290 Ethnic. Non-Christian.
291 Comparative & General Mythology.
292 *Greek and Roman Mythology.*
293 *Teutonic and North'n Mythology.*
294 Brahmanism. Buddhism.
295 Parseeism.
296 Judaism.
297 Mohammedanism.
298 Mormonism.
299 Minor Non-Christian Religions.

SOCIOLOGY.

300 Sociology.
301 Philosophy of Civilization.
302 Compends.
303 Dictionaries.
304 Essays.
305 Periodicals.
306 Societies.
307 Education.
308 Polygraphy.
309 History of Sociology.

310 Statistics.
311 Theory. Methods. Science of.
312 Population. Progress. Vital.
313 Special Topics.
314 Europe.
315 Asia.
316 Africa.
317 North America.
318 South America.
319 Oceanica.

320 Political Science.
321 Form of State.
322 Church and State.
323 Internal or Domestic Relations.
324 Suffrage.
325 Colonies and Immigration.
326 Slavery.
327 Foreign Relations.
328 Legislative Bodies and Annals.
329 Political Parties.

330 Political Economy.
331 Capital. Labor. Wages.
332 Banks. Money. Credits. Interest.
333 Land. Ownership. Rights and Rent.
334 Co-operation.
335 Socialism and Communism.
336 Finance. Public Funds. Taxation.
337 Protection and Free Trade.
338 Production and Manufactures.
339 Pauperism.

340 Law.
341 International Law.
342 Constitutional Law.
343 Criminal Law.
344 Martial Law.
345 American Statutes and Cases.
346 British Statutes and Cases.
347 Treatises. American and British.
348 Canon Law.
349 Foreign Law. Roman.

350 Administration. War.
351 Civil Service.
352 Local Government. City. Town.
353 United States and State.
354 Foreign States.
355 Army. Military Science. See 623.
356 *Infantry.*
357 *Cavalry.*
358 *Artillery.*
359 Navy. Naval Science. See 623.8.

360 Associations. Institutions.
361 Charitable.
362 Hospitals. Asylums.
363 Political.
364 Reformatory.
365 Prisons. Discipline.
366 Secret Societies.
367 Social Clubs.
368 Insurance.
369 Other.

370 Education.
371 Teachers, Methods, and Discipline.
372 Elementary.
373 Higher.
374 Self-education and Culture.
375 Curriculum.
376 Of Women.
377 Religious, Ethical, and Secular.
378 Colleges and Universities.
379 Public-School System.

380 Commerce, Communication.
381 Domestic Trade.
382 Foreign Trade. Consular Reports.
383 Post Office.
384 Telegraph. Cable. Telephone.
385 Railroad and Express.
386 Canal and Highway Transportation.
387 River and Ocean Transportation.
388 City Transit. See 625.
389 Weights and Measures. Metrology.

390 Customs. Popular Life.
391 Costume and Care of Person.
392 Birth. Home and Sex Customs.
393 Treatment of Dead.
394 Public and Social Customs.
395 Etiquette.
396 Woman's Position and Treatment.
397 Gipsies.
398 Folk-lore. Proverbs, etc.
399 Customs of War.

PHILOLOGY.

400 Philology.
401 Philosophy.
402 Compends.
403 Dictionaries.
404 Essays.
405 Periodicals.
406 Societies.
407 Study and Teaching.
408 Polygraphy.
409 History.

410 Comparative.
411 Orthography.
412 Etymology.
413 Dictionaries.
414 Phonology.
415 Grammar.
416 Prosody.
417 Inscriptions.
418 Texts.
419 Hieroglyphics.

420 English.
421 Orthography.
422 Etymology.
423 Dictionaries.
424 Synonyms.
425 Grammar.
426 Prosody.
427 Dialects.
428 School Texts.
429 Anglo-Saxon.

430 German.
431 Orthography
432 Etymology.
433 Dictionaries.
434 Synonyms.
435 Grammar.
436 Prosody.
437 Dialects.
438 School Texts.
439 Minor Teutonic.

440 French.
441 Orthography.
442 Etymology.
443 Dictionaries.
444 Synonyms.
445 Grammar.
446 Prosody.
447 Dialects.
448 School Texts.
449 Provençal.

450 Italian.
451 Orthography.
452 Etymology.
453 Dictionaries.
454 Synonyms.
455 Grammar.
456 Prosody.
457 Dialects.
458 School Texts.
459 Rumansh and Wallachian.

460 Spanish.
461 Orthography.
462 Etymology.
463 Dictionaries.
464 Synonyms.
465 Grammar.
466 Prosody.
467 Dialects.
468 School Texts.
469 Portuguese.

470 Latin.
471 Orthography.
472 Etymology.
473 Dictionaries.
474 Synonyms.
475 Grammar.
476 Prosody.
477 Dialects.
478 School Texts.
479 Minor Italic.

480 Greek.
481 Orthography.
482 Etymology.
483 Dictionaries.
484 Synonyms.
485 Grammar.
486 Prosody.
487 Dialects.
488 School Texts.
489 Minor Hellenic.

490 Minor Languages.
491 Minor Indo-European.
492 Semitic.
493 Hamitic.
494 Scythian.
495 Eastern Asiatic.
496 African.
497 North American.
498 South American.
499 Malay-Polynesian and other.

NATURAL SCIENCE.

500 Natural Science.
501 Philosophy.
502 Compends, Outlines.
503 Dictionaries, Cyclopedias.
504 Essays, Lectures, Addresses.
505 Periodicals.
506 Societies, Transactions, etc.
507 Education, Teaching.
508 Polygraphy, Collected Works.
509 History.

510 Mathematics.
511 Arithmetic.
512 Algebra.
513 Geometry, Conic Sections.
514 Trigonometry.
515 Descriptive Geometry.
516 Analytical Geometry, Quaternions.
517 Calculus.
518
519 Probabilities.

520 Astronomy.
521 Theoretical.
522 Practical and Spherical.
523 Descriptive.
524 Maps and Observations.
525 Earth.
526 Geodesy.
527 Navigation.
528 Ephemerides.
529 Chronology.

530 Physics.
531 Mechanics.
532 Liquids, Hydraulics.
533 Gases, Pneumatics.
534 Sound, Acoustics.
535 Light, Optics.
536 Heat.
537 Electricity.
538 Magnetism.
539 Molecular Physics.

540 Chemistry.
541 Theoretical.
542 Practical and Experimental
543 Analysis.
544 *Qualitative.*
545 *Quantitative.*
546 Inorganic.
547 Organic.
548 Crystallography.
549 Mineralogy.

550 Geology.
551 Physical and Dynamical Geology.
552 Lithology, Petrography.
553 Economic Geology.
554 Europe.
555 Asia.
556 Africa.
557 North America.
558 South America.
559 Oceanica.

560 Paleontology.
561 Plants.
562 Invertebrates.
563 *Protozoa. Radiates.*
564 *Mollusks.*
565 *Articulates.*
566 Vertebrates.
567 *Fishes. Batrachia*
568 *Reptiles. Birds.*
569 *Mammals.*

570 Biology. Ethnology.
571 Prehistoric Archæology.
572 Ethnology.
573 Natural History of Man.
574 Homologies.
575 Evolution. Species.
576 Origin and Beginnings of Life.
577 Properties of Living Matter.
578 Microscopy.
579 Collectors' Manuals.

580 Botany.
581 Physiological and Structural.
582 Phanerogamia.
583 *Dicotyledonæ.*
584 *Monocotyledonæ.*
585 *Gymnospermæ.*
586 Cryptogamia.
587 *Pteridophyta.*
588 *Bryophyta.*
589 *Thallophyta.*

590 Zoology.
591 Physiological Zoology.
592 Invertebrates.
593 *Protozoa. Radiates.*
594 *Mollusks.*
595 *Articulates.*
596 Vertebrates.
597 *Fishes. Batrachia.*
598 *Reptiles. Birds.*
599 *Mammals.*

USEFUL ARTS.

600 Useful Arts.
601 Philosophy.
602 Compends.
603 Dictionaries. Cyclopædias.
604 Essays. Lectures. Addresses.
605 Periodicals. Magazines. Reviews.
606 Societies. Fairs. Exhibitions.
607 Education. Schools of Technology.
608 Patents.
609 History of Useful Arts.

610 Medicine.
611 Anatomy.
612 Physiology.
613 Hygiene. Gymnastics. Training.
614 Public health. See also 628, San. Eng.
615 Materia medica. Therapeutics.
616 Pathology. Diseases. Treatment.
617 Surgery. Dentistry.
618 Diseases of Women and Children.
619 Comparative Medicine. Veterinary.

620 Engineering.
621 Mechanical.
622 Mining.
623 Military.
624 Bridge and Roof.
625 Road and Railroad.
626 Canal.
627 River and Harbor.
628 Sanitary. Water-works.
629 Other branches.

630 Agriculture.
631 Soil. Fertilizers. Drainage.
632 Pests. Hindrances. Blights. Insects.
633 Grains. Grasses. Fibres. Tea, etc.
634 Fruits. Orchards. Vineyards.
635 Kitchen Garden. See 716, Flowers.
636 Domestic animals.
637 Dairy. Milk. Butter. Cheese.
638 Bees. Silkworms.
639 Fishing. Trapping.

640 Domestic Economy.
641 Cookery. Gastronomy.
642 Confectionery. Ices.
643 Food. Dining. Carving.
644 Fuel. Lights. See also 697, 665, 621.32.
645 Furniture. Carpets. Upholstery.
646 Clothing. Toilet. Cosmetics.
647 Servants. Training. Duties. Wages.
648 Laundry.
649 Nursery. Children. Sick-room.

650 Communication. Commerce.
651 Writing. Cipher. Typewriters.
652 *Penmanship. Materials. Methods.*
653 *Short hand. Abbreviations.*
654 Telegraphy. Cables. Signals.
655 Printing. Type. Stereos. Publishing.
656 Transportation. Railroading, etc.
657 Book-keeping. Accounts.
658 Business manuals. Methods. Tables.
659 Advertising and other topics.

660 Chemical Technology.
661 Chemicals; Salts, Paints, etc.
662 Pyrotechnics. Explosives.
663 Beverages; Wines, Liquors, Ales, etc.
664 Foods; Sugar, Starch, etc.
665 Lights; Gas, Oil, Candles, etc.
666 Ceramics, Glass, Clay, Cement, etc.
667 Bleaching. Dyeing. Inks.
668 Other organic chemical industries.
669 Metallurgy. Assaying.

670 Manufactures.
671 Articles made of Metals.
672 *Of Iron and Steel; Stoves, Cutlery, etc.*
673 *Of Brass and Bronze; Bells, etc.*
674 Lumber and articles made of wood.
675 Leather „ „ „ leather.
676 Paper „ „ „ paper.
677 Cotton, Wool, Silk, Linen, etc.
678 Rubber and articles made of rubber.
679 Celluloid and other.

680 Mechanic Trades.
681 Watch and Instrument-making.
682 Blacksmithing. Horseshoeing.
683 Lock and Gun-making.
684 Carriage and Cabinet-making.
685 Saddlery and Shoe-making. Trunks.
686 Book-binding.
687 Clothes-making. Hats.
688
689 Other trades.

690 Building.
691 Materials. Timber, Stone, etc. See 620.1
692 Plans and Specifications.
693 Masonry. Plastering, etc.
694 Carpentry. Stair-building.
695 Slating and Tiling.
696 Plumbing. Gas and Steam-fitting.
697 Warming and Ventilation.
698 Painting, Glazing. Paper-hanging.
699 Car and Ship-building. See 623.8.

FINE ARTS.

700 Fine Arts.
701 Philosophy. Æsthetic.
702 Compends.
703 Dictionaries.
704 Essays. Addresses.
705 Periodicals.
706 Societies.
707 Education. Study. Teaching.
708 Art Galleries.
709 History of Art.

710 Landscape Gardening.
711 Public Parks.
712 Private Grounds. Lawns.
713 Walks. Drives.
714 Water. Fountains. Lakes.
715 Trees. Hedges. Shrubs.
716 Plants. Flowers. Conservatories.
717 Arbors. Seats. Outlooks.
718 Monuments.
719 Cemeteries. See also 393.

720 Architecture.
721 Architectural Construction.
722 Ancient and Oriental.
723 Medieval. Gothic.
724 Modern.
725 Public Buildings.
726 Ecclesiastical and Religious.
727 Educational and Scientific.
728 Residences.
729 Design and Decoration.

730 Sculpture.
731 Materials and Methods.
732 Ancient.
733 *Greek and Roman.*
734 Medieval.
735 Modern.
736 Carving. Seals. Dies. Gems.
737 Numismatics. Coins. Medals.
738 Pottery. Porcelain.
739 Bronzes. Bric-a-brac.

740 Drawing. Decoration.
741 Free-hand. Crayon.
742 Perspective. See also 515.6.
743 Art Anatomy.
744 Mathematical Drawing. See 515.
745 Ornamental Design. Carpet, etc.
746 *Art Needlework.*
747 *Interior Decoration.*
748 *Stained and Iridescent Glass.*
749 Artistic Furniture.

750 Painting.
751 Materials and Methods.
752 Color.
753 Epic. Mythic. Idealistic.
754 Genre. Still Life.
755 Religious. Ecclesiastic.
756 Historical. Battles, etc.
757 Portrait.
758 Landscape. Marine.
759 Various Schools.

760 Engraving.
761 Wood.
762 Copper. Steel.
763 Lithography.
764 Chromolithography.
765 Line. Stipple.
766 Mezzotint. Aquatint.
767 Etching. Dry Print.
768 Bank Note. Machine.
769 Collections of Engravings.

770 Photography.
771 Photographic Chemistry.
772 Silver processes, etc.
773 Gelatine and Pigment processes.
774 Albertype, and Printer's Ink.
775 Photolithography.
776 Photozincography, etc.
777 Photo-engraving. Photo-electros.
778 Special Applications.
779 Collections of Photographs.

780 Music.
781 Theory.
782 Dramatic.
783 Sacred.
784 Vocal.
785 Orchestral.
786 Piano and Organ.
787 Stringed Instruments.
788 Wind „
789 Other „

790 Amusements.
791 Public Entertainments.
792 *Theater. Opera.*
793 In-door Amusements.
794 *Games of skill. Chess.*
795 *Games of chance. Cards.*
796 Out-door Sports.
797 *Boating and Ball.*
798 *Horsemanship. Racing.*
799 *Fishing. Hunting. Shooting.*

LITERATURE.

800 Literature.
801 Philosophy.
802 Compends.
803 Dictionaries.
804 Essays.
805 Periodicals.
806 Societies.
807 Study and Teaching.
808 Treatises, Rhetoric.
809 History.

810 American Literature.
811 „ Poetry.
812 „ Drama.
813 „ Fiction.
814 „ Essays.
815 „ Oratory.
816 „ Letters.
817 „ Satire, Humor.
818 „ Miscellany.
819

820 English Literature.
821 „ Poetry.
822 „ Drama.
823 „ Fiction.
824 „ Essays.
825 „ Oratory.
826 „ Letters.
827 „ Satire, Humor.
828 „ Miscellany.
829 Anglo-Saxon Literature.

830 German Literature.
831 „ Poetry.
832 „ Drama.
833 „ Fiction.
834 „ Essays.
835 „ Oratory.
836 „ Letters.
837 „ Satire, Humor.
838 „ Miscellany.
839 Minor Teutonic Literatures.

840 French Literature.
841 „ Poetry.
842 „ Drama.
843 „ Fiction.
844 „ Essays.
845 „ Oratory.
846 „ Letters.
847 „ Satire, Humor.
848 „ Miscellany.
849 Provençal Literature.

850 Italian Literature.
851 „ Poetry.
852 „ Drama.
853 „ Fiction.
854 „ Essays.
855 „ Oratory.
856 „ Letters.
857 „ Satire, Humor.
858 „ Miscellany.
859 Rumansh and Wallachian.

860 Spanish Literature.
861 „ Poetry.
862 „ Drama.
863 „ Fiction.
864 „ Essays.
865 „ Oratory.
866 „ Letters.
867 „ Satire, Humor.
868 „ Miscellany.
869 Portuguese Literature.

870 Latin Literature.
871 „ Poetry.
872 *Dramatic.*
873 *Epic.*
874 *Lyric.*
875 „ Oratory.
876 „ Letters.
877 „ Satire, Humor.
878 „ Miscellany.
879 Minor Italic Literatures.

880 Greek Literature.
881 „ Poetry.
882 *Dramatic.*
883 *Epic.*
884 *Lyric.*
885 „ Oratory.
886 „ Letters.
887 „ Satire, Humor.
888 „ Miscellany.
889 Minor Hellenic Literatures.

890 Minor Languages.
891 Minor Indo-European.
892 Semitic.
893 Hamitic.
894 Scythian.
895 Eastern Asiatic.
896 African.
897 North American.
898 South-American.
899 Malay-Polynesian and other.

HISTORY.

900 History.
901 Philosophy.
902 Compends. Chronology.
903 Dictionaries.
904 Essays.
905 Periodicals.
906 Societies.
907 Study and Teaching.
908 Polygraphy.
909 Universal Histories.

910 Geography and Description.
911 Historical.
912 Maps.
913 Antiquities.
914 Europe.
915 Asia.
916 Africa.
917 North America.
918 South America.
919 Oceanica. Polar Regions.

920 Biography.
921 Of Philosophy.
922 „ Theology.
923 „ Sociology.
924 „ Philology.
925 „ Science.
926 „ Useful Arts.
927 „ Fine Arts.
928 „ Literature.
929 Genealogy. Heraldry.

930 Ancient History.
931 Chinese.
932 Egyptian.
933 Jewish.
934 Indian.
935 Medo-Persian.
936 Keltic.
937 Roman.
938 Greek.
939 Minor Countries.

940 Europe.
941 Scotland. Ireland.
942 England. Wales.
943 Germany. Austria.
944 France.
945 Italy.
946 Spain. Portugal.
947 Russia.
948 Norway. Sweden. Denmark.
949 Minor Countries.

950 Asia.
951 China.
952 Japan.
953 Arabia.
954 India.
955 Persia.
956 Turkey in Asia.
957 Siberia.
958 Turkistan. Afghanistan. Beloochistan.
959 Farther India.

960 Africa.
961 North Africa.
962 Egypt. Nubia.
963 Abyssinia.
964 Morocco.
965 Algeria.
966 North Central Africa.
967 South Central Africa.
968 South Africa.
969 Madagascar.

970 North America.
971 British America.
972 Mexico. Central America.
973 United States.
974 North Atlantic States.
975 South Atlantic States.
976 South Central or Gulf States.
977 Northeast Central or Lake „
978 West Central or Mountain „
979 Pacific States

980 South America.
981 Brazil.
982 Argentine Republic.
983 Chili.
984 Bolivia.
985 Peru.
986 Colombia. Ecuador.
987 Venezuela.
988 Guiana.
989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.
991 Malaysia.
992 Sunda.
993 Australasia.
994 Australia.
995 New Guinea.
996 Polynesia.
997 Isolated Islands.
998 Arctic Regions.
999 Antarctic Regions.

Complete Tables

INCLUDING ALL THE

SUB-SECTIONS

Sub-Sections.

010 Bibliography.

.1, Theory, Utility, etc.; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training, see also 020.7; .8, Polygraphy; .9, History.

011 General Bibliographies. Universal Catalogs.

011 is by **Authors.** If by **Subjects** they go in 016.
012–016 include both bibliographies and catalogs. 017–019 is limited to catalogs of general collections.

012 Of Individual Authors.

Alfabeted by bibliographees, not by compilers; e. g. Chaucer, Dante, Ruskin, etc. Authors whose works are kept together (e. g. in 800s), attract their bibliographies to same number, leaving only a reference here.

013 Of Special Classes of Authors.

e. g. Books written by Jesuits, by Catholics, by members of the Bavarian Academy, etc. or these may go with the church, society, etc., with references here.

014 Of Special Forms. Anonyms, Pseudonyms, etc.

.1, American; .2, English; .3, German, etc.

015 Of Special Countries.

Books published in the country. Publishers' lists, current publications. Subdivided by countries like 940–999; e. g. 015.42, Bibliography of books published in England, as Lowndes or English Catalog.
The history of literature, i. e. belles lettres, poetry, drama, fiction, etc., goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, though the literary history of some special class is 013.

016 Of Special Subjects.

Subdivided like the main classification, from 000–999; e. g. 016.01, Bibliography of bibliographies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

Library and Sale Catalogs.

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017–019 therefore includes only catalogs of general collections, limited to no one class or subject.

017 Classed Catalogs. Systematic or Logical.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.
For all forms of alphabetical subject catalogs, see 019. See 016 for Bibliographies.

018 Author Catalogs. See 011 for Bibliographies.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.
A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronological, and any other forms (except subject and dictionary) of catalogs of collections.

019 Dictionary Catalogs. Alphabetico-classed, etc.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

020 Library Economy.

.1, Coöperation; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

021 Scope and Founding of Libraries.

.1 Scope and Usefulness. See 331.85 for Laboring classes.

.2 Library as an Educator; as People's University.

.3 Library in Relation to Schools and the Young.
See 371.64 and 027.8, School libraries.

.4 Library Lectures, Museums, Galleries, etc.

.5 Library as a Public Recreation.

.6 Founding. Extension.

.7 Developing Interest; by Press, Lectures, School, Pulpit, Societies, Circulars, etc.

.8 Legislation; State and Local.

.9 Raising Funds. Securing Gifts of Books, etc.
Subscriptions, bequests, lectures, fairs, membership fees, taxes, government aid (remitted duties, public documents, foreign exchanges, etc.).

022 Buildings. See also 727.8, Architecture.

.1 Location. Provision for Growth. Branches. Deliveries.

.2 Materials and Protection against Fire. Library Fires.

.3 Plans. Number, Size, and Arrangement of Rooms.
See 729.2.

.4 Storage Rooms. Stacks. Alcoves. Galleries. Shelving

.5 Reading Rooms. Central Halls. Small Study Rooms.

.6 Administration and Special Rooms.
Cataloging, office, patent, newspaper, public document, duplicate, class, lecture, museum, art, chess, conversation, waiting, coat, toilet, etc.

.7 Lighting. Natural and Artificial. Electric, Gas, etc.
See 621.32, Electric lighting.

.8 Heating and Ventilation as Affecting Books.
See 697, Building, Heating, etc. See 621.19, 628.8.

.9 Fixtures. Furniture and Fittings. ~~Shelving,~~ Counters, Hoists, Desks, Tables, Chairs, etc.

023 Government and Service.

.1 **Constitution and By-Laws for Managers.**

.2 **Appointment and Tenure of Officers.**

.3 **Trustees. Committees. Directors.**

.4 **Chief Librarian. Qualification. Duties.** See 920.2, Lives.

.5 **Staff. Assistants, Catalogers, Janitor.**

.6 **Daily Hours. Vacations.**

.7 **Titles and Duties.**

.8 **Salaries.**

.9 **Rules for Staff.**

024 Regulations for Readers.

.1 **Readers' Qualifications.**
User's age, Residence, Guarantees, References, Registration.

.2 **Fees and Assessments. Free Use.** See 027.2; 027.4.

.3 **Hours of Opening. Evening Opening.**

.4 **Closing. Sunday, Holiday, Vacation, Examination.**
See 263.7, Sunday; 025.8, Examination.

.5 **Reference Use.**
Access to Catalogs, Librarians, and Shelves. Reading-Room Rules. Decorum in Library.

.6 **Home Use.**
Number of Books, Time, Delinquencies, Fines, Re-lending, Restrictions, Renewals.

.7 **Special Privileges to Readers.**
Extra Books. Extra Time. Reservations. Suspension of Rules. Excuses.

.8 **Injuries. Defacements. Mutilations. Losses. Thefts.**

.9 **Other Regulations for Users.**

025 Administration. Departments.

025 is for the librarian's part. The trustees build and furnish (022); make rules for government and service (023), and regulations for readers (024); but the administration involves questions of its own, which, however, are closely allied to topics in 021–024 and elsewhere; e. g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder's craft (686).

Administration includes .1, Supervision; .2, Acquisition; .3–6, Utilization; .7–9, Preservation; i. e. the librarian's duty to books is to Get, Use, Keep.

.1 **Executive. General supervision.**
Finances, accounts, salaries (see 023.8); Supplies, printing; Publications, statistics, reports, bulletins; Relations to readers, permits, privileges, visitors; Correspondence.

.2 **Accession. Acquisition.**
Selecting and buying books, serials, pamphlets, ephemera; Prices, discounts, duty free importation (see 337.8); Auctions, old book lists; Sale duplicates, exchanges, gifts (see also 021.9); Reception, checking bills, collation; Plating, pocketing, embossing, private marking; Accessioning; Order slips, index and book, order and serial blanks.

.3 **Catalog.** For printed catalogs themselves, see 017–019. This is for *cataloging*.
Printed, manuscript, or card; Author, subject, title, classed; Dictionary or combined; Coöperative rules; Size notation; Coöperative cataloging; Duplicated titles, print or photography; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels.

.4 **Classification.**
For philosophical classification of knowledge, see 112, Methodology. This is for practical classing of books, pamphlets, and notes, rather than theoretical speculation.
On shelves; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close *vs.* broad classing; Mnemonic features; Basis of division; Co-ordination of special subjects.

.5 **Reference. Reference books. Aids to readers.**
See 028 for general discussion of reading and aids. This is limited to library administration.

.6 **Loan.** See 024.1 and 024.6 for regulations.
Indicators; Charging systems, legers *vs.* cards; Book cards, marks, pockets; Call slips, readers' cards; Notices, reserves; Registers; Inter-library loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 **Binding and repair.** See also 686, Bookbinding.
Materials, durability, tight *vs.* spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling.

.8 **Shelf.** See 022.9, Shelving.
Arrangement; Shelf numbers; Shelf and book labels; Fixed and relative locations; Sizes on shelves; Arrangement and preservation of public documents, pamphlets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Injuries, heat, gas, insects; Stock taking; Shelf lists.

.9 **Building. Care, cleaning, safety. Janitor. Police.**
See 022 for building and fittings. This is janitor's department.

026 Libraries on special subjects.

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in one of the sections above. Subdivided by adding the class number of subject; e. g. a Medical Library is 026.61; a Chess Library, 026.794; but the Catalog of a Chess Library is 026.794; Blanks, etc., from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026–7, thus making a complete set of its publications.

027 General libraries.

This includes both circulating and reference; i. e. all not limited to special subjects. Subdivided if wished by countries, like 930–999; e. g. 027.744, College libraries in France. Or if wished, group all by geographical location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044, Libraries of France; 027.07471, Libraries of N. Y. City.

A private library is still classed 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change.

.1 Private and family.

.2 Proprietary, Society, Club and Athenæum.

.2 is limited to libraries that are semi-private, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantile library, even though it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2.

.3 Subscription. Circulating. e. g. Mudie's, etc.

.4 Free public. Rate supported. Endowed. See 331.85.

.5 State and government.

.6 For special classes.

Institution, prison, reformatory, asylum, monastic, workmen's, factory, railroad, sailors, lighthouse, itinerating. A workmen's library of books on engineering goes 026.62, not here, as the subject is more useful than the class of readers.

.7 College.

.8 School. Sunday-school. Parish. See also 371.64; 021.3.

.9 Free news-rooms and reading-rooms. See also 331.85.

028 Reading and aids.

See 374.1–2, Self education by private reading and reading circles.

.1 Methods.

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking.

.2 Choice of editions. Annotations, indexes, paper, type.

.3 Courses of reading.

.4 Fiction. Novel reading.

.5 Reading of young. Juveniles.

.6 Professorships of books and reading.

Lectures. Stimulus and guidance in schools.

.7 Use of reference books.

.8 Aids to readers. Guidance, printed or personal, see also 028.6 and 025.5.

.9 Character of reading in libraries.

029 Literary methods and labor-savers.

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best served by referring to 025 and 028 instead of repeating the heads.

.1 Methods. e. g. Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); coöperative methods; records *vs.* memory, etc.

See 653, abbreviations and shorthand; 154.1, mnemonics; 025.4, classification.

.1 is for what one *learns* how to do by an improved *method*.

.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature.

.2 Appliances. Labor-saving tools and devices. See also 651.

Most literary labor-saving devices go also under 651, Office equipment and methods; and are best kept together there; e. g. all office and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc., cases, see 025.8; for binders, 025.7.

.3 Clippings. Scrapbooks or files. See also Files 651.

.4 Notebooks, notetaking, abstracting, etc.

.5 Indexing. Index rerums. Printed and patent indexes.

For alfabeting and transliteration see 025.3.

.6 Authorship. Writing for press. Copy and proof.

See also 655.25 Proofreading; 655.52 Relations to publishers.

.7

.8

.9

The Divisions 030–070 below are all subdivided; 1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other.

030 General cyclopedias.

040 General collected essays.

050 General periodicals. Magazines.

060 General societies. Transactions.

e. g. Academies of Paris, Berlin, Vienna, etc.

070 General newspapers. Journalism.

In large collections use geographical divisions under 1, American; 2, English, etc., as in 970 and 940-9. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where published. They could not go on shelves with ordinary sized books, and a reference is made as easily to them under 070 as anywhere.

080 Special libraries. Polygraphy.

090 Book rarities.

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts. Autographs.

Photographs of mss. go with subject rather than here.
For Diplomatics and Palæography, see 417, and under the special language, 421.7, 431.7, etc.

092 Block books.

093 Early printed books. Incunabula.

094 Rare printing.

Aldines, Elzevirs, Caxtons, etc.; Privately printed books; Unique books.

095 Rare binding.

Noted binders, costly ornament, curious bindings.

096 Rare illustrations or materials.

Illuminated. Illustrated by inserted plates. Printed on vellum, silk, bark, etc., in gold or silver letters, etc.

097 Ownership. Book plates. Ex libris.

098 Prohibited. Lost. Imaginary.

099 Other rarities. Curiosa. Minute size, etc.

Philosophy.

100 Philosophy in General.

Works limited to none of the nine Divisions.

101 Utility.

102 Compends, Outlines.

103 Dictionaries, Cyclopedias.

104 Essays, Lectures, Addresses.

105 Periodicals, Philosophical Magazines.

106 Societies, Transactions, etc.

107 Study and Teaching of Philosophy.

108 Polygraphy, Extracts, Maxims, etc.

109 History of Philosophy.

110 Metaphysics.

111 Ontology.

Nature of Being. Substance and Form.

112 Methodology.

Philosophical Classification of Knowledge. Terminology. For Book Classification see 025.4.

113 Cosmology.

114 Space.

115 Time.

116 Motion.

117 Matter.

118 Force.

119 Quantity. Number.

120 Other Metaphysical Topics.

121 Theory of Knowledge. Origin. Limits.

122 Causation. Cause and Effect.

123 Liberty and Necessity.
See also 233.7, Freedom; 234.9, Predestination; 159, Will.

124 Teleology. Final Causes.

125 Infinite and Finite.

126 Consciousness. Personality. See 233.6, Doctrine.

127 Unconsciousness. Automata.

128 The Soul. See 218, Natural theology; 237, Future state.

129 Origin of the Individual Soul.

.1 **By Special Creation.** See 213, Creation.

.2 **By Inheritance. Traduction.**
See 575.1, Evolution; 136.3, Mental heredity; 233.3, Spiritual heredity.

.3 **Pre-existence.**

.4 **Transmigration. Palingenesis.**

.5 **Emanation.** See also 147, Pantheism; 212, Natural theology.

130 Mind and Body. Anthropology.

131 Mental Physiology and Hygiene.
For influence of mind on body, mind cure, etc., see 615.851; see also 613.8, Hygiene of nervous system.

132 Mental Derangements.

.1 **Insanity.** See 362.2, Asylums; 920.8, Lives; 616.84, Disease.

.2 **Idiocy.** See 362.3, Asylums; 920.8, Lives; 371.93, Education.

.3 **Hypochondria. Melancholy.** See 616.852, Hysteria.

.4 **Catalepsy.** See 616.852, Hysteria.

.5 **Ecstatics.**

.6 **Kleptomania and other leading to crime.**

.7 **Dipsomania and other leading to vice.**
See also 178, Temperance; 616.861, Alcoholism.

.8 **Mnemonic derangements.**
Not knowing in one state what passed in another. See 154, Memory.

133 Delusions. Witchcraft. Magic.

.1 **Apparitions. Ghosts.**

.2 **Hallucinations.**

.3 **Divination. Oracles. Second Sight. Omens. Predictions.**

.4 **Witchcraft. Sorcery.** See 272.8, Persecutions.

.5 **Astrology.** See also 520.1, Astrology.

.6 **Palmistry.**

.7 **Humbugs. Quackery.**

.9 **Spiritism. Table-tipping, etc.** See also 289.9, Sects.

134 Mesmerism. Animal Magnetism. Clairvoyance.

135 Sleep. Dreams. Somnambulism.

136 Mental Characteristics. BL
See also 131, Mental physiology.

As Influenced by

.1 **Sex.** See 376.2, Mental capacity of women.

.2 **Physical Surroundings.**
See 575.3, Evolution; 573.4, Natural history of man.

.3 **Ancestry (Mental Heredity).** See 575.1, Evolution; 233.3, Spiritual heredity; 129.2, Origin of soul; 613.92, Hygiene.

.4 **Race. Racial Characteristics.** See 572, Ethnology.

.5 **Age.**

.6 **Physical Structure and Conditions.**

137 Temperaments.

138 Physiognomy.

139 Phrenology. Mental Photographs, etc.

140 Philosophical Systems.

The heads 140–149.9 are for the discussion of the systems as such. The philosophical works of authors of these various schools are classed under 190, not here. From these heads refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system.

141 Idealism. Transcendentalism. e.g. Plato, see 184.1, 884.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36.

142 Critical Philosophy. e.g. Kant, see 193.2.

143 Intuitionalism. e.g. Reid, see 192.5; McCosh, see 191.5. not much used
See also 156, Intuitive faculty; 171.2, Ethics.

144 Empiricism. e.g. Descartes, see 194.1; Bacon, see 192.1.

145 Sensationalism. e.g. Locke, see 192.2.

146 Materialism. Positivism. e.g. Hobbes; Comte, see 194.8.
See also 149.2, Realism.

147 Pantheism. Monism. e.g. Spinoza. See 212, Natural theology.

148 Eclecticism. e.g. Cousin, see 194.7.

149 Other Philosophical Systems.
See 211, Rationalism, Scepticism; 214, Fatalism.

.1 **Nominalism.**

.2 **Realism.** See 146, Materialism.

.3 **Mysticism.** See 273.2, Heresies; 189.5, Medieval philosophy.

.4 **Associationalism.**

.5 **Optimism. Meliorism.**

.6 **Pessimism.** e.g. Schopenhauer, see 193.7.
See also 216, Evil; 233, Doctrine of man.

.7 **Agnosticism.** See 273.8, Agnostic heresy.

.8 **Nihilism.**

.9 **Other Systems.**

150 Mental Faculties. Psychology.

For mind in animals, see 591.51.

151 Intellect. Capacity for Knowing.

.1 Genius.

152 Sense. Sense Perceptions.

Passive or Receptive Faculty.

.1 Vision.

.2 Hearing.

.3 Smell.

.4 Taste.

.5 Touch.

.6 Muscular Sense.

153 Understanding.

Active or Thinking Faculty.

.1 Conception. The Concept or Notion.

.2 Association.

.3 Abstraction.

.4 Reflection.

.5 Judgment.

.6 Reasoning. Induction and Deduction. See 160, Logic.

154 Memory. Reproductive power.

See 132.8, Mnemonic derangements.

.1 Mnemonics.

155 Imagination. Creative Power.

.1 Fancy. Imaging Power.

156 Intuitive Faculty. Reason. For Reasoning, see 153.6.

157 Sensibility. Emotions. Affections.

158 Instincts. Appetites.

159 Will.

160 Logic. Dialectics.

See 153.6, Reasoning power. For logic of chance, see 519, Probabilities.

161 Inductive.

162 Deductive.

163 Assent. Faith. See also 234.2, Doctrinal theology.

164 Symbolic. Algebraic. Logical machines.

Logical topics.

165 Sources of error. Fallacies.

166 Syllogism. Enthymeme.

167 Hypotheses.

168 Argument and persuasion.

169 Analogy. Correspondence. See also 219, Natural theology.

170 Ethics. Theoretical and applied.

Many topics in applied ethics occur also in law, specially in 343, Criminal law. See also 377.2, Ethical education.

.1, ; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies, Society for ethical culture; .7, Study and teaching; .8, Polygraphy; .9, History.

171 Theories. Philosophy of ethics.

.1 Authority. Will of God. Christian.

.2 Intuition. Moral sentiment.

See also 143, Intuitionalism; 156, Intuitive faculty.

.3 Perfection.

.4 Happiness. Hedonism.

.5 Utilitarianism.

.6 Conscience. Casuistry.

.7 Evolutionary or educational.

.8 Altruism.

.9 Egoism.

172 State Ethics.

.1 Individuals and the state. Duties of citizens. Patriotism. See 320, Political science.

.2 Duties of public officers.

.3 Relations to church.

See 261.7, The church; 322, Church and state; 272, Persecutions.

.4 International ethics. Peace and war.

See 341, International law.

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173 Family Ethics.

.1 Marriage and Divorce. See 347.6, Family law.
.2 Polygamy and Monogamy. See 298, Mormonism.
.3 Duties of Husbands and Wives.
.4 Infanticide.
.5 Duties of Parents.
.6 Duties of Children.
.7 Home Life.
.8 Masters and Servants. See 647, Servants; 331, Labor.
.9

174 Professional and Business Ethics.

.1 Clergy.
.2 Physicians.
.3 Lawyers.
.4 Merchants. Business Men.
.5 Speculation.
.6 Gambling. See 175.9.
.7 Compact. Promise.
.8 Employers and Employed.
.9

175 Ethics of Amusements. For amusements, see 790.

.1 Public Shows and Diversions. Rinks, Circuses, etc.
.2 Theater. Opera. Private Theatricals.
.3 Dancing. Balls. Round Dances.
.4 Games of Skill. Billiards, Chess, etc.
.5 Games of Chance. Cards, Dice, etc.
.6 Prize Fighting. Animal Fighting. Bull, Dog, Cock, etc.
.7 Racing. Horse. Boat. Pedestrian. Wheel, etc.
.8 Novel Reading.
.9 Betting. Poolselling. See 174.6.

176 Sexual Ethics.

.1 Chastity.
.2 Celibacy. See 254, Celibacy of Clergy.
.3 Continence.
.4 Solitary Vice.
.5 Social Evil. See 258, Parish care of fallen.
.6 Adultery.
.7 Immoral Art.
.8 Immoral Literature.
.9

177 Social Ethics.

.1 Courtesy. See Etiquet, 395.
.2 Conversation. Gossip. See also 374.1, Self-culture.
.3 Truth. Slander. Flattery.
.4 Dress. Display. Sumptuary Legislation.
.5 Caste. Class Feeling. Wealth and Rank.
See 294, Brahmanism; 331, Capital and labor.
.6 Friendship. Courtship. Coquetry.
.7 Philanthropy. Humanity.
.8 Solitude vs. Social Obligations.
.9

178 Temperance. Stimulants and Narcotics.

General works on Temperance may be divided by form into .04, Essays; .05, Periodicals; .06, Societies; .07, Teaching; .09, History. See also 613.3, Beverages; 613.8, Nervous system; 331.84, Laboring classes.

.1 Use of Intoxicating Drinks. Beer Drinking. Medicinal Use.
.2 Total Abstinence vs. Temperance.
.3 Social Drinking. Wine at Table. Treating.
.4 Traffic in Intoxicating Drinks. License. High License.
See also 336.27, Taxation.
.5 Prohibition. See 329.81, Prohibition party.
.6 Reformatories. Inebriate Asylums, etc. See 362.
.7 Tobacco.
.8 Opium. Hasheesh. Chloral. Ether and other Drugs.
.9 Gluttony and other Intemperance.

179 Other Ethical Topics.

.1 Morals of the Press. Newspapers.
.2 Cruelty to Children. See 173.4; 331.3, Labor of children.
.3 Cruelty to Animals.
.4 Vivisection. See also 614.22, Vivisection laws.
.5 Oaths.
.6 Heroism. Bravery. Cowardice.
.7 Life. Duelling. Suicide. See 394.8, Customs.
.8 Pride. Covetousness. Envy. Anger. Sloth. Jealousy. Hate, and other Vices.
.9 Humility. Liberality. Gentleness. Patience. Diligence. Charity. Modesty, and other Virtues.

180 Ancient Philosophers.

See 921.9, Biography of Ancient Philosophy.

181 Oriental Philosophers.

.1 Chinese. Confucius. Mencius.
.2 Egyptian.
.3 Jewish. Kabala. Philo. Maimonides.
.4 Indian. Gymnosophists.
.5 Persian. Sufism.
.6 Chaldæan.
.7 Sabeism.
.8 Phœnician.
.9 Syrian.

182 Early Greek Philosophers.

.1 Ionic. Thales. Anaximander. Anaximenes.
Materialistic. Things are as they seem.
.2 Italic or Pythagorean. Half Idealistic.
.3 Eleatic. Xenophanes. Parmenides. Zeno. Melissus.
Idealistic. Existence denied. Thought is the only reality.
.4 Heraclitus.
.5 Empedocles.
.6 Atomistic.
.7 Democritus.
.8 Anaxagoras.
.9 Other Early Greek.

183 Sophistic and Socratic Philosophers.

.1 Sophistic. Protagoras. Gorgias. Prodicus. Hippias.
.2 Socrates.
.3 Socratic.
.4 Cynic. Antisthenes, Diogenes, Crates, etc.
.5 Cyrenaic. Aristippus, Hegesias, etc.
.6 Megaric. Euclid, Eubulides, Diodorus, etc.
.7 Elian and Eretrian. Phedo, Menedemus, etc.

184 Platonic. Older Academy.

.1 Plato. .2 Speusippus. .3 Xenocrates.

185 Aristotelian. Peripatetic. Lyceum.

.1 Aristotle. .2 Theophrastus. .3 Eudemus. .4 Strato.

186 Pyrrhonist. New Platonist.

.1 Pyrrhonism. Scepticism. Pyrrho, Timon.
.2 New Academy. Arcesilaus, Carneades. Plutarch.
See 888.8.
.3 Eclecticism. Cicero. See 875.4.
.4 Alexandrian. Neo-Platonic. Philo, Plotinus, Proclus, Porphyry, Iamblichus. See 239.4, Apologetics; 273.1.

187 Epicurean. Epicurus. Lucretius. See also 871.1.

188 Stoic.

.1 Zeno.
.2 Cleanthes.
.3 Chrysippus.
.4 Panaetius.
.5 Posidonius.
.6 Seneca. See 878.5; 872.6.
.7 Epictetus.
.8 Marcus Aurelius.

189 Early Christian and Medieval Philosophers.

.1 Gnosticism. See 273.1, Basilides, Marcion. See 273.2, Manicheism.
.2 Patristic. Tertullian. Augustine. Clement. Origen.
.3 Arabian. Avicenna, Averroes.
.4 Scholastic. Scotus, Aquinas, Anselm, Abelard.
.5 Mystic. Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme.

190 Modern Philosophers.

See also 921.1 to 921.8, Biography of Philosophy, or lives may be put here with works, with references only under 920, Biography. Philosophical works are put here, not under the School or System to which the author may be thought to belong. See note under 140.

191 American Philosophers.

These numbers may be left blank for future use or used for the well known names among American Philosophical writers given below.

.1 Jonathan Edwards. 1703–1758.
.2 O. A. Brownson. 1803–1876.
.3 Ralph Waldo Emerson. 1803–1882. See 814.36.
.4 Laurens P. Hickock. 1798–1888.
.5 James McCosh. 1811–
.6 Noah Porter. 1811–
.7 Francis Bowen. 1811–1890.
.8 William T. Harris. 1835–
.9 Other American Philosophical Writers.

192 British Philosophers.

.1	Bacon.	1561–1626.	See 144, Empiricism.
.2	Locke.	1632–1704.	See 145, Sensationalism.
.3	Berkeley.	1685–1753.	See 141, Idealism.
.4	Hume.	1711–1776.	See 824.64, English Essays.
.5	Reid.	1710–1796.	See 143, Intuitionalism.
.6	Dugald Stewart.	1753–1828.	
.7	John Stuart Mill.	1806–1873.	
.8	Spencer.	1820–	
.9	Other British Philosophical Writers.		

193 German Philosophers.

.1	Leibnitz.	1646–1716.	
.2	Kant.	1724–1804.	See 142, Critical Philosophy.
.3	Fichte.	1762–1814.	See 141, Idealism.
.4	Schelling.	1775–1854.	
.5	Hegel.	1770–1831.	
.6	Schleiermacher.	1768–1834.	
.7	Schopenhauer.	1788–1860.	See 149.6, Pessimism.
.8	Lotze.	1817–1882.	
.9	Other German Philosophical Writers.		

194 French Philosophers.

.1	Descartes.	1596–1650.	See 144, Empiricism.
.2	Malebranche.	1638–1715.	
.3	Condillac.	1715–1780.	
.4	Rousseau.	1712–1778.	
.5	Diderot.	1713–1784.	
.6	Lamennais.	1782–1854.	
.7	Cousin.	1792–1867.	See 148, Eclecticism.
.8	Comte.	1798–1857.	See 146, Positivism.
.9	Other French Philosophical Writers.		

195 Italian Philosophers.

196 Spanish Philosophers.

197 Slavic Philosophers.

198 Scandinavian Philosophers.

199 Other Modern Philosophers.

The heads of 180–199 are for discussions of the systems of these men and for their philosophical works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and 5, where their works are more useful than in 184–5 because of their classical prominence.

Religion.

200 Religion General works.

201 Philosophy. Theories. Methods.

202 Compends. Outlines. Systems.

203 Dictionaries. Cyclopedias.

204 Essays. Lectures. Disputations. Addresses.
See 252, Sermons.

205 Periodicals. Magazines. Reviews.

206 Societies. Transactions. Reports, etc.
General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject.

207 Education. Theological seminaries. Training schools. Divided like 940–99.

208 Polygraphy. Collected works. Extracts, etc.
Many collections go under a more specific head; e. g. 240.

209 History of theology.

210 Natural theology.

211 Deism and atheism.
Scepticism. Infidelity. Rationalism, etc.
See 239, Apologetics; 231, God; 273.8, Agnostic heresy; 149.7, Agnosticism.

212 Pantheism. Theosophy. See 147, Pantheism; 129.5, Origin of soul.

213 Creation. See 113, Cosmology. Evolution. See 575, Science.

214 Providence. See 231.5, Doctrines. Theodicy. See 231.8, for Christian view.

215 Religion and science. See 239.8, Apologetics.

216 Evil. Depravity. See 149.6, Pessimism; 233.2, Sin.

217 Prayer. Prayer gauge. See 264.1, Prayer; 248, Personal religion.

218 Future life. Immortality. Eternity.
See 237, Future state; 128, The soul.

219 Analogies. Correspondences. See also 169, Logic.

220 Bible. General works.

For similar works limited to Old or New Testament, or individual books, see specific head below.

.1 Canon. Inspiration. Prophecy.

.2 Concordances. Analyses.

.3 Dictionaries. Cyclopedias.

.4 Original texts and early versions. Codices.

Heads for both old and new testaments are given, as they are also used for 221 and 225. .42, Chaldee; .43, Syriac; .44, Hebrew; .45, Samaritan; .46, Other Semitic. Ethiopic. Arabic, etc.; .47, Latin. Itala. Vulgate; .48, Greek. Septuagint. Aquila. Symmachus. Theodotion. Hexapla; .49, Other early versions. Armenian. Coptic, Gothic, etc. 220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7, with reference from 220.44.

.5 Versions of Bible. Polyglots. Divided by languages, like 400.

These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43.

.6 Hermeneutics. Exegesis. Symbolism. Typology.

.7 Commentaries on whole Bible, and annotated editions.

For Notes, etc., on Portions of the Bible, see the most specific head in 221–229.

.8 Special topics.

Divided like General Classification; e. g. Natural Science of the Bible in 220.85.

CBE .9 Biblical Geography and History.

.91, Biblical geography, description, etc.; (see 915.69, 913.33, Palestine); .92, Scriptural biography; (see also 922.1; 232.9, Lives of Christ); .93, Antiquities, archæology; (see also 296, Jewish religion; 933, History of Jews); .94, Chronology; .95, History, see 935, Jews.

CBF

221 Old Testament. Texts. Introductions, etc.

Divided like 220, e. g. 221.7. Commentaries on O. T.

222 Historical books.

.1 Pentateuch.

.11, Genesis; .12, Exodus; .13, Leviticus; .14, Numbers; .15, Deuteronomy; .16, Decalogue.

.2 Joshua.

.3 Judges and Ruth.

.4 Samuel.

.5 Kings.

.6 Chronicles.

.7 Ezra.

.8 Nehemiah.

.9 Esther.

223 Poetical books.

.1 Job.

.2 Psalms.

.3 Authorship and chronology.

.4 Special groups.

Messianic; Greater Hallel; Lesser Hallel; Vesper Psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic Five Books, Ps. 1–41; 42–72; 73–79; 60–106; 107–150.

.5 Liturgic use by Christians.

See 264.038, Anglican psalter; 245, Hymnology.

.6 Commentaries on Psalms.

.7 Proverbs.

.8 Ecclesiastes.

.9 Song of Solomon or Canticles.

224 Prophetical Books.

.1 Isaiah.

.2 Jeremiah.

.3 Lamentations.

.4 Ezekiel.

.5 Daniel.

.6 Hosea.

.7 Joel.

.8 Amos.

.9 Other Minor Prophets.

.91 Obadiah.

.92 Jonah.

.93 Micah.

.94 Nahum.

.95 Habakkuk.

.96 Zephaniah.

.97 Haggai.

.98 Zechariah.

.99 Malachi.

225 New Testament. Texts, Introductions, etc.

Divided like 220.

CBG

226 Gospels and Acts.

.1 Harmonies.

.2 Matthew.

.3 Mark.

.4 Luke.

.5 John.

.6 Acts of the Apostles.

.7 Miracles.

.8 Parables.

.9 Lord's prayer.

227 Epistles.

.1 Romans.

.2 1 Corinthians.

.3 2 Corinthians.

.4 Galatians.

.5 Ephesians.

.6 Philippians.

.7 Colossians.

227.8 **Other Pauline Epistles.**

.81 1 Thessalonians.
.82 2 Thessalonians.
.83 1 Timothy.
.84 2 Timothy.
.85 Titus.
.86 Philemon.
.87 Hebrews.

.9 **Catholic Epistles.**

.91 James.
.92 1 Peter.
.93 2 Peter.
.94 1 John.
.95 2 John.
.96 3 John.
.97 Jude.

228 Apocalypse.

229 Apocrypha.

.1 Esdras 1, 2.
.2 Tobit, Judith, Esther.
.3 Wisdom.
.4 Ecclesiasticus.
.5 Baruch, Epistle of Jeremy, Song of the three Children.
.6 Story of Susanna, History of Bel and the Dragon, Prayer of Manasses.
.7 Maccabees 1, 2, 3,4.
.8 Pseudo Gospels.
.9 Apostolic Epistles and Canons. Clementines. See 281.1.

230 Doctrinal. Dogmatics. Theology.

General Doctrinal Works may be subdivided by churches like 280–289. See 252.3.

231 God. Unity. Trinity.

.1 God the Father, Creator.
.2 God the Son, Redeemer.
.3 God the Holy Ghost, Giver of Life, Sanctifier.
.4 Divine Attributes. Omniscience, Omnipresence, Omnipotence.
.5 Divine Providence. See 214.
.6 Divine Love and Wisdom.
.7 Divine Law and Miracles.
.8 Theodicy. Vindication of God's justice in permitting evil. See also 214, Nat. theology.
.9

232 Christology.

.1 Incarnation. Messiah.
.2 Logos, the Word of God.
.3 Atonement.
.4 Sacrifice.
.5 Resurrection.
.6 Second Coming. See also 289.3, Second Adventists.
.7 Judgment.
.8 Divine Humanity.
.9 Lives of Christ.

233 Man.

.1 The Fall.
.2 Sin.
.3 Moral and Spiritual Heredity. See Biology, 575.1; 136.3; 129.2.
.4 Accountability.
.5 Natural and Spiritual Body.
.6 Personality. See 126, Metaphysics.
.7 Freedom. See 234.9; 123; 159.
.8
.9

234 Salvation. Soteriology.

.1 Grace.
.2 Faith.
.3 Redemption.
.4 Regeneration.
.5 Repentance.
.6 Obedience.
.7 Justification.
.8 Sanctification.
.9 Predestination and Freewill. See 233.7; 123; 159.

235 Angels. Devils. Satan.

236 Eschatology. Last Things.

.1 Death.

.2

.3 Millennium.

.4 Intermediate State. Sheol. Hades.

.5 Purgatory.

.6 Paradise. Limbus patrum.

.7 Limbo. Limbus infantum.

.8 Resurrection.

.9 Judgment. See 232.7, Christology.

237 Future State. See 218, Natural theology.

.1 Eternity.

.2 Immortality.

.3 Conditional Immortality.

.4 Heaven.

.5 Hell. Gehenna.

.6 Retribution. Future Punishment.

.7 Eternal Punishment. See 289.1, Universalists.

238 Creeds. Confessions. Covenants. Catechisms.

Divided more closely if wished like 280–289; e. g. 238.19, Greek church.

.1 Apostles', Nicene, and Athanasian Creeds.

.2 Creed of Pius IV. (Trent); and later Roman.

.3 Anglican. 39 Articles, A. D. 1551. See 264.037, Liturgy.

.4 Continental Prot. Lutheran. Calvinist. Dort.

.5 Westminster. Saybrook. Cong'l. Cambridge. Savoy.

.6–9 Of other Sects. Divided like 286–289.

239 Apologetics. Evidences of Christianity.

If preferred, courses of Apologetic lectures may be kept together; e. g. 239.01, Bampton; .02, Boyle; .03, Hulsean; .04, Bohlen; .05, Paddock; .08, Miscellaneous. More usefully each book is classed under the most specific head that will contain it.

.1 Apostolic Age.

.2 Against the Jews.

.3 Against the Heathen.

.4 Against the Neo-Platonists. See 273.1, Gnostic heresy.

.5 Against the English and Scotch Deists. See 211, Deism.

.6 Against the French Encyclopedists.

.7 Against the Rationalists.

See 211, Natural theology; 273.8, Agnostic heresy; 149.7, Agnosticism.

.8 Against the Scientists. For non-Christian view, see 215.

.9 Other Special Denials.

240 Devotional. Practical.

241 Didactic. For Catechisms, see 238.

242 Meditative. Contemplative. See 248, Personal religion.

.1 Thomas à Kempis.

243 Hortatory. Evangelistic.

244 Miscellany. Religious novels, Sunday-school books, allegories, etc.

But class Bunyan in 823.42, because of his literary prominence.

245 Hymnology. Religious poetry.

See 223.5. Psalms; 264.038, Psalter.

Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked.

246 Ecclesiology. Symbolism. Religious art.

246-7 cover religious bearings. For art side see 700.

.1 Byzantine and Gothic ecclesiology.

See 723, Mediæval architecture; 726, Religious architecture.

.2 Primitive church and heathen art.

.3 Images in churches. Iconoclasts.

.4 Protestantism and religious art.

.5 Emblematic and cryptographic art. Catacomb symbols.

.6 Liturgic symbolism. Altar. Colors. Lights.

See 264, Public worship.

.7 Evangelistic use of music and art, pictorial and plastic. Della Robbias.

.8 Eucharistic music. Ambrose. Gregory the Great. Later development. See 783, Sacred music; 264.2, Public worship.

.9

247 Sacred furniture. Vestments. Vessels. Ornaments, etc.

.1 Font. Baptistery. Lectern. Pulpit.

.2 Tabernacle. Rood screen. Reredos.

.3 Sculpture and mortuary design.

See 718, Monuments; 726.8, Mortuary buildings; 730, Sculpture.

.4 Illumination. Mosaics. Enamels. Stained glass.

See 745, Ornamental design; 748, Stained glass.

.5 Fresco and religious painting. See 750, Painting.

.6 Pallium. Mitre. Crozier. Ring.

.7 Vestments and altar cloths.

.8 Eucharistic vessels. See 265.3, Sacraments.

.9 Ornaments, etc. Crucifix. Banners. Thurible. Incense.

248 Personal religion. Asceticism. See also 273.2, Ascetic heresy.

249 Family devotions. See 264, Public worship.

250 Homiletic. Pastoral. Parochial.

251 Homiletics. Preaching. See 264.6, Public worship.

Divided like 252, for matter *about* special kinds of sermons.

252 Sermons.

The collected sermons on various topics under 252 are divided by churches and sects, like 280. The sermons on specific topics are more useful, like other pamphlets, classed with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, in 331.89. The nine heads below are for collections and cross references, but can be used for separate sermons if the classifier prefers.

.1 Episcopal charges. Pastorals.
.2 Controversial. Polemic.
.3 Doctrinal. Dogmatic. See also 230, Dogmatics.
.4 Practical. Devotional.
.5 Academic. Educational. See also 378.7, Baccalaureates.
.6 Political. Public occasions and duties.
.7 Consecration. Ordination.
See also 265.4, Ordination; 265.9, Consecration; 262.16, Polity.
.8 Expository.
.9 Memorial. Obituary. Biographical. Historical.
The memorial of a special church goes with that church in 280. See 920, Biography.

253 Pastoral visitations, evangelistic.

254 Clerical support. Celibacy.

See also 176.2, Sexual ethics; 248, Asceticism; 613.89, Hygiene.

255 Brotherhoods. Sisterhoods.

In the parish. For Monastic orders, see 271.

256 Societies for parish work. Guilds. Sodalities.

Local societies. Discussion of desirability of such work. For general societies see 206 and 267.

257 Parochial schools. Libraries, etc.

See 377.5, Education; 027.8, Parish libraries.

258 Parish care of sick, fallen, etc.

See 265.8, Ministry of sick; 176.5, Social evil.

259 Other ministrations and work.

260 Church. Institutions and work.

261 The church. Its influence on morals, civilization, etc.

.1
.2
.3 Church vs. barbarism.
.4 Church and morals.
.5 Church and intellectual development. See 377.8, Education.
.6 Church and civilization.
.7 Church and civil government. See 172.3, State ethics; 322, Church and state.
.8 National churches vs. organic unity.
.9

262 Ecclesiastical polity.

.1 Ministry.
.11 Apostolic succession.
.12 Episcopate.
.13 Papacy. Primacy. Papal supremacy; infallibility, 18 July 1870.
.14 Priest. Presbyter. Minister. Lay ministry.
.15 Deacon. Deaconess. Evangelist.
.16 Orders. Ordination. See 265.4, Sacraments; 252.7, Sermons.
.17 Episcopal.
.18 Presbyterian.
.19 Congregational.
.2 Parish. Congregation. See 250 for Parochial work.
.3 See. Diocese. Cathedral system.
.4 Council. Synod. Presbytery. Congregation. Convention.
Polity only, here. Proceedings go with churches, 281-9.
.5 General or œcumenical council. See also 270.2.
.6 Canons. Decrees.
.7 Traditions.
.8 Authority. Church and ministerial. Private judgment.
.9 Discipline. Courts. Trials. For Canon law see 348.

263 Sabbath. Lord's day. Sunday.

.1 Hebraic sabbath.
.2 Modern sabbath. Seventh day.
.3 Lord's day. Christian Sunday.
.4 Sunday observance.
.5 Work.
.6 Amusement.
.7 Opening libraries and museums.
See also 024.4, Library rules.
.8 Sunday laws.
.9

264 Public worship. Divine service. Ritual.

See also 246, Ecclesiology; 247, Sacred furniture. General works are divided by Churches like 280. Under various Churches the services may be further divided, as, e. g.

.03 Anglican and American P. E. ritual.
.031 Calendar. Festivals and fasts. See also 529.6, Chronology.
.032 Lectionary and rubrics.
.033 Morning prayer. Litany.
.034 Evening prayer. Vespers. Compline.
.035 Sacraments, ordinances, and services. See also 265, Sacraments.
.036 Collects, epistles and gospels.
.037 Ordinal. Articles. Creeds. See also 238.3, Creeds, doctrines.
.038 Psalter and other. See 223.5, Psalms; 245, Hymnology.
.039 History of successive prayer books.

264.1 **Prayer. Extempore. Liturgic.**
See also 248-249, Private and Family Prayer.

.2 **Music. Singing. Instrumental. Praise Meeting.**
See also 783, Sacred Music; 246.7, 246.8, Ecclesiology.

.3 **Scripture Readings.**

.4 **Antiphonal or Responsive Readings.**

.5 **Confessions of Faith. Creeds.** See also 238, Creeds.

.6 **Sermons. Exhortations. Instructions.**
See also 251 and 252, Preaching and Sermons.

.7 **Prayer and Conference Meetings.**

.8 **Class and Covenant Meetings. Love Feasts.**

.9 **Sacramentals.** See also 265, Sacraments.

265 Sacraments. Ordinances.

.1 **Baptism.**

.2 **Confirmation. Church Fellowship.**

.3 **Eucharist. Holy Communion. Sacrifice.**

.4 **Holy Orders. Ordination.** See also 262.16, Ministry; 252.7, Sermons.

.5 **Marriage.** See 173, Ethics of the Family.

.6 **Penance. Confession. Absolution.**

.7 **Extreme Unction. Viaticum.**

.8 **Ministry of Sick and Dead. Faith Cure. Healing. Burial.**

.9 **Consecration. Dedication.** See 262.16, Ordination; 252.7, Sermons.

266 Missions. Home and Foreign.

Subdivided by Churches, like 280. See also 377.6, Missionary schools.

* Missions in special countries or places, including those of all churches, go under the geographically divided Religious History, 274-279, with references under 266.

267 Associations.

.1 **Religious societies of both men and women.**

.11 U. S. Christian commission.

.15 Salvation army.

.2 **Religious societies of men.**

For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies, 207; Bible societies, 206.

.21 17th century or earlier.

.22 18th century.

} May be divided by countries like 940-99.

.23 19th century; inter- and undenominational.

.231 In educational institutions. Divided like 940-99. If preferred, cancel .231 and put all together in .234-9. For work of Y. M. C. A. see 267.361.

.232 "Nasmith" societies.

.233 Young men's Christian unions; i. e. not "evangelical," etc.

.234-.239 Others. Divided like 940-99.

.24 19th century; denominational.

.241 In educational institutions. Divided like 282-289. If preferred, cancel .241 and put all together in .242-9. For work of Y. M. C. A. see 267.361.

.242-.249 Others. Divided like 282-289.

.3 **Young Men's Christian Associations.**

Active membership confined to members of "evangelical" churches.

To shorten the number, X may be used for 267.3 throughout; i. e. X 19 would mean "Work in small towns."

267.31 **Objects, field and extension.**

.311 Need and objects.

.312 Limits; — for and by young men and distinctively religious.

.313 Relation to the church.

.314 International work.

.315 National work.

.316 State work.

.317 District work.

.318 Work in towns able to support a general secretary.

.319 Work in small towns.

} Methods only. For history, reports and periodicals see 267.39; for secretaries see 267.341.

.32 **Buildings.** See library buildings 022.

.321 Location. Provision for growth.

.322 Materials and protection against fire.

.323 Plans. Number, size and arrangement of rooms.

.324 Reception, social rooms and parlors.

.325 Library. Reading, lecture, and class rooms. See 022.

.326 Administration and special rooms. Boys' rooms.

.327 Physical culture rooms.

.328 Lighting, heating, and ventilation.

.329 Fixtures, furniture, and fittings.

.33 **Organization.**

.331 Incorporation. Constitution and by-laws.

.332 Branches and sub-organizations. Including women's work for young men.

.333 Managers. Officers serving without pay.
1, Trustees (in charge of real estate).
2, Directors.
3, President.
4, Treasurer.
5, Recording secretary.
6, Executive or Corresponding secretary.

.334 Standing committees.
1, Importance; enlistment and composition.
2, Principles and methods of organization.
3, Names and duties. See also Department work 267.35.

.335 Membership.
1, Membership committee.
2, Classes of membership.
3, Securing and retaining members.
4, Development of active members.
5, Associate membership and its relations.
For members' meeting see Social work, 267.3544.

.34 **Salaried officers. Duties, qualifications, training.**

.341 General secretary and assistants. Including international and state secretaries. See also 267.314-.316.
1, Office and work.
2, Qualifications.
3, Relationship: 31, To churches and pastors; 32, To officers, directors, and committees; 33, To other employes; 34, To the members; 35, To the religious work; 36, To the business community; 37, To his fellow secretaries.
4, Personal hints: 41, considering a call and beginning work; 42, Spiritual and intellectual growth and health; 43, Office work, system, and economy; 44, Personal appearance and conversation; 45, Ladies' company; 46, "Secretarialism."

267.342 Librarian and assistants. May be divided like 267.341. See also Library administration, 025 and 267.3532.

·343 Physical director and assistants. May be divided like 267.341. See also 267.355 and 613.7.

·344 Other salaried officers.

·345 Training; need and methods, demand and supply.

·346 Training schools.

·347 Training by apprenticeship.

·348 Institutes. } Methods only; for reports see 267.39.

·349 Conferences. }

·35 Local work by departments.

·351 Business department.
1, Finance committee.
2, Annual budget.
3, Endowments and other sources of income.
4, Solicitation, collection and disbursement.
5, Financial book-keeping.
6, Debt, taxes, &c.
7, Records and statistics.
8, Advertising, including anniversaries and parlor conferences.
9, Printed matter. Including bulletin, prospectus, etc.

·352 Religious department.
1, Committees.
2, Individual Bible study. Methods and helps.
3, Bible classes.
4, Training classes. Personal work.
5, Bible readings. Song services.
6, Evangelistic meetings.
7, Social religious meetings.
8, Other meetings in the rooms.
9. Work outside the rooms. In public institutions, sermons to young men, distribution of religious papers, invitations, etc.

·353 Educational department.
1, Committees.
2, Library. See 267.342 and 025.
3, Reading room.
4, Classes.
5, Lectures and talks.
6, Literary societies.

·354 Social department.
1, Committees.
2, Reception committee.
3, Social rooms and fittings. See 267.32.
4, Receptions. Socials. Entertainments.
5, Music.
6, Amusements. Including games of skill. See also 794.

267.355 Physical department.
1, Committees.
2, Aim and benefit of department. For Physical director see 267.343; Equipment, methods, etc., 613.7.

·356 Information, relief, etc., department.
1, Boarding house bureaus.
2, Employment bureau.
3, Savings bureau.
4, Visitation of sick.
5, Destitute young men.

·357 Boys' department.
1, Committees.
2, Religious work.
3, Educational work.
4, Social work.
5, Physical work.
6, Information, relief, etc.

·358

·359 Janitor's department. Building; care, cleaning, safety. Police.

.36 Work among special classes.

Y. M. C. A. only; other religious societies of men go in 267.2.

.361 College and school.
1, History and methods in general.
2, International reports. Including Northfield meetings.
3, International periodicals.
For state and sectional reports and periodicals see 267.39.

.362 Railroad employes.
1, History and methods in general.
2, International reports.

.363 Commercial travelers.

.364 Foreign-speaking. Divided like 400; e. g. 3, German, 4, French, 5, Italian, etc.

.365 Colored men.

.366 American Indians.

.367 Soldiers. U. S. Christian commission, 267.11.

.368 Sailors.

.369 Other. Policemen, firemen, fishermen, lumbermen, mutes, etc.

·37

.38

.39 History, reports, periodicals, etc.

For methods see 267.314–.319.

.391 International history.

.392 International reports, etc. } Reports, etc., of international college and railroad work go in 267.361–.362.
1, Reports.
2, Other pamphlets.

.393 International periodicals. International college periodicals, 267.3613.

.394–.399 Divided like 940–999.

267.4 **Religious societies of women.**

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.43 19th century; inter- and undenomination

.431

.432 Women's Christian associations.

Divided like 267.3. To shorten the number, W may be used for 267.432 throughout; e. g. W 1 would mean "Objects, field and extension."

.433 King's daughters.

.44 19th century; denominational. Divided like 282–289.

.5 **Young Women's Christian Associations.** Active membership confined to members of "evangelical" churches.

Divided like 267.3–.399.

To shorten the number Y may be used for 267.5; e. g. Y 3, Organization, instead of 267.53.

.6 Religious societies of young people. For Sunday schools see 268.

.61 Inter- and undenominational.

.611

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.613 Young people's society of Christian endeavor.

1, Reports, etc.

2, Periodicals.

.62 Denominational. Divided like 282–289.

.7 **Religious societies of boys.** Not Y. M. C. A. Divided like 267.6.

.8 **Religious societies of girls.** Not Y. W. C. A. Divided like 267.6.

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268 Sunday Schools.

269 Revivals. Retreats. Parish Missions.

270 Religious History.

D

Ancient Period. To Conversion of Germans.

See 281.1–281.4, for collected works of early theological writers, etc. 270 is for religious history of these *periods*.

For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2.

.1 **Apostolic. Nativity to Constantine.**

.2 **Period of Œcumenical Councils. Centralization. A. D. 325-787.**

The Greek Church acknowledges these seven Councils as really Œcumenical. Anglicans generally recognize only the first six. See also 262.5, Polity.

.21	First of Nice,	A. D. 325.
.22	First of Constantinople,	381.
.23	First of Ephesus,	431.
.24	Chalcedon,	451.
.25	Second of Constantinople,	533.
.26	Third of Constantinople,	681.
.27	Second of Nice,	787.

Mediæval Period. Charlemagne to Luther.

270.3 **Charlemagne. Papacy vs. Empire. A. D. 787–1054.**

Church planted among the Germans. Feudalism. Great schism, east *vs.* west, 1054.

.4 **Hildebrand. Roman Supremacy. A. D. 1054–1200.**

Temporal Power. Scholasticism. First three Crusades.

.5 **Later Mediæval. Renaissance. A. D. 1200–1517.**

Innocent III. Papal Schism. Avignon. Nominalism *vs.* Realism. Greek Church under Moslems. Education. Arts. Inventions. Pre-Reformation.

Modern Period. Reformation to present.

From A. D. 1517, Theology in Europe is in three types, viz.: Roman, Lutheran, and Reformed or Calvinistic.

.6 **Reformation. Counter-Reformation. A. D. 1517–1648.**

Council of Trent, A. D. 1545-63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious Wars. Jesuit Missions in East. See also Reformation in England, etc., 274.2.

.7 **Peace of Westphalia to French Revolution. A. D. 1648–1789.**

Union of Church and State. Deism. Materialism.

.8 **Modern. Rationalistic. A. D. 1789-**

Holy Alliance. Greek Church in Russia. Atheism. Pantheism. Protestant Missions.

271 Monastic Orders.

See also 255, Brotherhoods; 377.3, Monastic schools.

.1	**Benedictines.**	Founded A. D.	529.
.2	**Dominicans.**	,, ,,	1170.
.3	**Franciscans.**	,, ,,	1182.
.4	**Augustinians.**	,, ,,	1256.
.5	**Jesuits.**	,, ,,	1540.
.6	**Passionists.** 1720.	**Redemptorists.**	1732.

.7 **Lesser Roman Orders.**

.71	Carthusians.	Founded A. D.	1086.
.72	Cistercians.	,, ,,	1098.
.73	Carmelites. 12th Century.		
.74	Trappists. 1150.	Capuchins.	1525.
.75	Sulpicians. 1642.		
.76	Oblates.		
.77	Lazarists. 1624.		
.78	Christian Brothers. 18th Century.	De la Salle.	
.79	Other Lesser Roman Orders.		

.8 **Anglican Brotherhoods.**

.9 **Sisterhoods.**

.91	Sisters of Charity. Vincent de Paul.	Founded A. D.	1620.
.92	Sisters of Mercy. Augustinian.	,, ,,	1831
.93	Ladies of the Sacred Heart. Jesuit.	,, ,,	1800.
.94	Sœurs de bon Secours. Nurses.		
.95	Little Sisters of the Poor.		
.96	Contemplative. Cloistered Nuns.		
.97	Other Roman Sisterhoods.		
.971	Carmelites.		
.972	Second of St. Dominick.		
.973	Franciscans.		
.974	Ursulines.	A. D.	1537.
.975	Of the Visitation.	,,	1610.
.976	Of St. Joseph.	,,	1650.
.977	Of the Presentation.	,,	1777.
.98	Anglican Sisterhoods.		
.99	Other Protestant Orders. Deaconesses. (Kaiserwerth.)		

272 Persecutions.

.1 Apostolic Church by Imperial Rome. 1st to 4th Century.

.2 Heretics, by Inquisition or Holy Office. Since 1470. ,,

.3 Waldenses and Albigenses. 11th and 12th Cent. By R.Ch.
See also 284.4, Protestant sects.

.4 Huguenots. French Protestants. St. Bartholomew, 1572. Edict Nantes, 1598, Revocation, 1685. By Rom. Ch.
See also 284.5, Protestant sects.

.5 Molinists and Quietists. Close of 16th Century to destruction of Port Royal, A. D. 1709. By Roman Catholics.
See also 273.7, Heresies.

.6 Marian. Anglican Reformers by Mary. A. D. 1553–8. ,,

.7 Elizabethan. Later 16th Century. Rom. Ch. by Anglicans.

.8 Quakers. Baptists. Witches. Later 17th Cty. By Puritans.
See also 133.4, Witchcraft.

.9 Other Persecutions.

273 Heresies.

For the history of special Doctrines see 230–239, Doctrinal Theology.

.1 Gnostic.—Reaction of Pantheism and Heathen Philosophy on Christianity. 1st three Centuries.
See also 189.1, Gnostic philosophy; 186.4, Neo-Platonism; 239.4, Apologetics.

.2 Manichæism.—Parsee Dualism. Opposition of Good and Evil. Mystic. Ascetic. 3d Century.
See 149.3, Mysticism; 248, Asceticism.

.3 Sabellian.—That the Trinity is not of persons, but of successive manifestations. About 250 A. D. (Held by Schleiermacher, Bushnell, Swedenborg.)

.4 Arian.—Denying Divinity of Christ. 4th Century.

.5 Pelagian.—Denying Original Sin and Supernatural Grace. 5th Century.

.6 Antinomian.—Denying force of Law, under Gospel Dispensation. 16th Century.

.7 Molinist and Jansenist. Pietists. Port Royal.—Augustine's doctrine of Grace, vs. the Roman doctrine of Good Works. A. D. 1580–1700.

.8 Agnostic.—Denying possibility of Revelation. Holding that Theology and the Supernatural lie without the domain of Human Knowledge.
See also 149.7, Philosophy; 211, Atheism; 239, Apologetics.

.9 Minor Heresies.

274 to 279 General Religious History. By Countries.

274–279 is divided geographically like 940–999.

280 Christian Churches and Sects.

note: 281–289 may be subdivided, where necessary, like 940–999 C

281 Primitive and Oriental Churches.

See also 270.1 to 270.3, Early Religious History.

.1 Apostolic Church, to time of Great Schism, A. D. 1054.
Works of Apostolic and Christian Fathers here; use 270 for religious history of these periods. See also 229.9, Apocryphal books.

.2 Primitive Apostolic, to end of First Century.

.3 Ante-Nicene, A. D. 100–325. See also 270.1.

.4 Post-Nicene, A. D. 325–1054. See also 270.2–3.

.5 Oriental Churches.

.6 Armenian.

.7 Coptic.

.8 Nestorian.

.9 Eastern or Græco-Russian or Holy Orthodox Church.
The Great Schism, Mutual Ex-communication, A. D. 1054, separates the Catholic Church into Eastern and Western Churches, which from this time have separate histories.

282 Western or Roman Catholic Church.

Divided geographically like 940–999.

283 Anglican and American P. E. Church.

Divided geographically, when needed, like 940–999; e. g. the Anglican Church in Australia is 283.94; India, 283.54.

284 Continental Protestant Sects. Protestantism.

.1 Lutheran. Reformed. See also 285.7, Reformed church in America.

.2 Calvinist; Zwinglian. See 285, and 286.1.

.3 Hussites. Anabaptists. Leyden. See 286.1.

.4 Albigenses. Waldenses. Vaudois. See 272.3.

.5 Huguenots. See 272.4.

.6 Moravian.

.7 Scandinavian. Swedish.

.8 Old Catholic.
Here are classed those denying Papal Infallibility, or for other cause cut off from Rome, though Catholic in other respects.

.9 Other.

285 Presbyterian. Reformed. Congregational.

.1 Presbyterian Church in America.

.2 Presbyterian Church in Great Britain.

.3 Cumberland Presbyterian.

.4 United Presbyterian.

.5 Reformed Presbyterian

.6 Minor Presbyterian Sects.

.7 Reformed (Dutch) Church in America, e. g. 285.77471, in N. Y. City

.8 Congregational.

.9 Puritanism.

286 Baptist.

.1 Calvinistic. .2 Free Will. .3 Seventh Day.

287 Methodist.

.1 Wesleyan Methodist.
.2 Calvinistic Methodist.
.3 Welsh Calvinistic Methodist.
.4 Primitive Methodist.
.5 Primitive Wesleyan.
.6 Methodist Episcopal.
.7 Protestant Methodist.
.8 African Methodist.
.9 Minor Methodist Sects.

288 Unitarian. See 273.4.

289 Minor Christian Sects.

.1 Universalist.
.2 Campbellite or Christian. Disciples.
.3 Adventist. See also 232.6, Second coming of Christ.
.4 New Church or Swedenborgian.
.5 Catholic Apostolic.
.6 Quakers. Friends. Hicksites.
.7 Mennonite.
.8 Shaker. Mystic.
.9 Other Minor Christian Sects.

290 Ethnic. Non-Christian.

291 Comparative and General Mythology.

292 Greek and Roman Mythology.

293 Teutonic and Northern Mythology.

294 Brahmanism. Buddhism. For other Indic Religions, see 299.11.
See also 891.2, Sanskrit literature; 177.5, Caste.

295 Parseeism. Zend Avesta. For other Iranic Religions, see 299.15.
See also 891.52, Zend literature.

296 Judaism. For other Semitic Religions, see 299.2.

297 Mohammedanism.

298 Mormonism. See 173.2, Polygamy.

299 Minor Non-Christian Religions.
Subdivided ethnically like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158.

Sociology.

300 Sociology in General.

301–309 all have Sociology in General as their subject, but it is treated in these various forms. A periodical on Education goes 370.5, not 305, which is only for periodicals on Sociology in General. In Sociology, most works in these forms are limited to one Division; e. g. to Political Economy, Education, Law, etc. All these have the same subdivision of General Works; i. e. Essays on the various divisions are 310.4, 320.4, 330.4, and so on to Essays on Manners and Customs in General, 390.4. A Zero in any class number shows the subject to be general, not specific.

301 Philosophy. Theories.
See Philosophy of History, 901.

302 Compends, Outlines.

303 Dictionaries, Cyclopedias, etc.

304 Essays, Lectures, Addresses.

305 Periodicals, Magazines, Reviews.

306 Societies, Transactions, Reports.

307 Education, Teaching, Study, etc. See also 370.

308 Polygraphy, Collected Works, Extracts, etc.
Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of Social Science.

310 Statistics.

311 Theory, Methods. Science of.

312 Population. Progress of. Vital Statistics. Births. Deaths. Mortality. Longevity.
See also 614.1, Registration and vital statistics.
Statistics are divided geographically like 930–999; e. g. Population of Maine is 312.741.

313 Special Topics.

314 to 319 General Statistics. Divided geographically like 940–999.
The Statistics of any special matter are put with the subject, e. g. of Domestic Animals in 636, of Short Hand in 653, of French Novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. The Statistics of New York City would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine, i. e., the Topic outranks the Locality.

320 Political science.

.1, Theory of the state; .2, Compends, statecraft; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History of political science, divided like 930–999.

321 Form of state.

This is for discussion of form of state, what should be; for what is, see 342, Constitutional law and 353–354, Administration.

- .1 Family. Patriarchal age.
- .2 Tribes. Clans. Marks. Village communities.
- .3 Feudalism.
- .4 Democracy. Pure; e. g. Athens, Town meeting.
- .5 Aristocracy. e. g. Italian republics. Mediæval German cities.
- .6 Absolute monarchy.
- .7 Constitutional monarchy.
- .8 Republic. Modern democracy, delegated powers.

322 Church and state. See also 172.3, State ethics; 261.7, The church.

323 Internal or domestic relations.

Free speech, Liberty of the press; see also 070, Newspapers; 179.1, Morals of the press.

324 Suffrage.

- .1 Qualifications. Age. Property. Education. Color. Race, etc. See also 325.1, Naturalization.
- .2 Forms of suffrage. Universal. Limited. Minority representation. Class system. Cumulative, etc.
- .3 Woman suffrage. See also 396.3, Woman; 329 83, Woman suffrage party.
- .4–9 In special countries. Divided like 940–999.

325 Colonies and immigration.

- .1 Immigrants and naturalization.
- .2 Emigrants. Divided by countries like 930–999.
- .3 Colonization. Divided by country like 940–999.
- .4–9 In special countries. Divided like 940–999, by country in which planted.

326 Slavery. See also 973.7, Civil war: 371.94, Education of freedmen.

- .1 Slave trade.
- .2 Coolies and contract slaves.
- 3 Serfs and serfdom.
- .4 Anti-slavery documents.
- .5 " periodicals.
- .6 " societies.
- .7 Pro-slavery.
- .8 Emancipation and freedom.
- .9 History of slavery. Divided geographically like 930–999.
- .92 Biography of slaves.

327 Foreign relations. Divided geographically like 930–999.

328 Legislative bodies and annals.

- .1 Parliamentary law.
- .2
- .3
- .4–9 Of special countries.

Divided by countries like 940–999, and under each, works may be divided: .1, Journals; .2, Debates; .3, Abstracts; .4, Documents; .5, Rules; .8, Legislative manuals; .9, History of bodies.

329 Political parties. Party conventions.

329.01, U. S. presidential campaign documents of all parties, arranged by campaigns.

- .1 Federal.
- .2 Anti-Federal.
- .3 Democratic.
- .4 Whig.
- .5 American. Know-nothing.
- .6 Republican.
- .7
- .8 Minor parties.

.81, Prohibition, see also 178.5, Ethics; .82, Greenback, see also 332.5, Paper money; .83, Woman suffrage, see also 324.3, Suffrage; .84, People's; .85, Labor, see also 331.8, Laboring classes.

- .9 Parties in other countries. Divided geographically like 940–999.

330 Political economy.

.1, Theories; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .8, Polygraphy; .9, History.

331 Capital. Labor and wages.

- .1 Relations of capital to labor.
- .2 Wages. Comparative wages. Profit sharing. Compulsory insurance.
- .3 Labor of children. See also 179.2, Cruelty to children.
- .4 Labor of women. See also 396.5, Woman.
- .5 Convict labor. Prison contracts. See also 365, Prisons.
- .6 Pauper labor. Cheap foreign labor. Chinese. See also 339, Pauperism; 362.5, Asylums.
- .7 Skilled and unskilled labor.
- .8 Laboring classes. See also 329.85, Labor party.
- .81 Hours of labor.
- .82 Places of labor. Dangers. See also 613.6, Hygiene; 622.8, Mining; 614.8, Protection of life.
- .83 Food. Clothes. Shelter. See also 640, Domestic economy.
- .84 Morals and habits. Thrift. Temperance. Amusements. Temptations. See also 170, Ethics; 790, Amusements; 263.6, Sunday.
- .85 Helps. Lectures. Libraries. Reading-rooms, etc. See also 374.5. Popular lectures; 020, Libraries; 263.7, Sunday.
- .86 Training. Apprenticeship.
- .87 Organization of labor.
- .88 Trade unions and other labor societies. See also 338.6. Guilds.
- .89 Strikes.

332 Banks. Money. Credit. Interest.

.1 **Banks and Banking.**
.11, National; .12, State; .13, Private; .14, Trust companies; .15, Foreign. See also 334.2, Co-operative banks.

.2 **Savings Banks.**

.3 **Loan Institutes.**

.31 Credit Institutes.
.32 Building Associations. See 334.1, Co-operation.
.33 Monts de Piété. Governmental.
.34 Pawn Shops. Private.

.4 **Coins and Coinage. Mints.**

.41 Coinage Metals. Production and Value. Gold. Silver. Nickel. Copper.
.42 Single and Double Standard.
.43 International Standards.
.44 Monetary Congresses.
.45 Comparative Value of Moneys.
.46 Mints.
.47 Coinage Laws.
.48
.49 History of Mints and Coinage. Divided geographically like 940–999.

.5 **Paper Money. Public and Private Notes.** See 329.82.

.6 **Stocks and Stock Exchanges. Bonds.**

.7 **Credit. Credit System.**

.8 **Interest and Usury.** See also 336.31, Public securities.

.9 **Counterfeiting. Forging.** See 343, Criminal Law.

333 Land. Ownership, Rights, and Rent.

See 338, Production; and 630, Agriculture.

.1 **State Ownership.**

.2 **Community Ownership.**

.3 **Private Ownership.**

.4 **Absentee Owners. Alien Owners.**

.5 **Rent of Land for Cultivation.**

.6 **" " Building.**

.7 **Forests.**

.8 **Mines.**

.9 **Fisheries.**

334 Co-operation.

.1 **Building Societies. Loans. Organization.** See also 332.32.

.2 **Co-operative Banks.** See also 332, Banks.

.3 **" Insurance Societies.** See also 368, Insurance.

.4 **" Housekeeping.** See also 640, Domestic economy.

.5 **" Consumptive Associations. Stores.**

.6 **" Productive Associations. Factories.**

.7 **Friendly Societies.**

.8 **Burial Societies.**

335 Socialism and Communism.

.01, Theory of property.

.1 **English Socialism.**

.2 **Saint Simonism.**

.3 **Fourierism.**

.4 **Communism.**

.5 **German Socialism. Social Democracy.**

.6 **State Socialism. Socialism of the Chair.**

.7 **Christian Socialism.**

.8

.9 **Socialistic Communities.**
Divided by countries like 930–999.

336 Finance.

.1 **State Domain and Properties.**

.11 Management and Income from Rents.
.12 Sale.
.13 Land Claims.
.14 Land Grants to Railroads, Colleges, etc. See also 379.12, Education.
.19 State Monopolies. e. g. French State Monopoly of Tobacco Trade. See also 338.8, Monopolies.

.2 **Taxation.**

.21 Direct.
.22 Real Estate.
.23 Personal.
.24 Income.
.25 Poll.
.26 Customs. Specific or Ad Valorem. See 337, Protection.
.27 Excise. Licenses. Liquor Dog. Legacies. Stamp Duties. See also 178.4.
.28 Local Taxes. See also 379.13, School funds.
.29 Assessment and Collection of Taxes.

.3 **Loans. Public Securities.**

.31 Interest-bearing Securities. See also 332.8, Interest.
.32 Floating Debt.
.33 Sinking Fund.
.34 Public Credit.
.35 Annuities.
.36 Repudiation.

.4–9 **Finance of Special Countries.** Divided geographically like 940–999.

337 Protection and Free Trade.

See also 336.26, Customs.

.1 **Absolute Free Trade. No Tariff.**

.2 **Free Trade, i. e. Tariff for Revenue only.**

.3 **Protection.**

.4 **Subsidies.**

.5 **Duties on Special Articles. Steel, Wool, etc.**

.6 **" " Raw Materials.**

.7 **" " Books and Works of Art.**

.8 **Duty Free Importation for Colleges, etc.** See also 021.9, Libraries.

.9 **Reciprocity.**

338 Production. Manufacture. Prices.

.1 Agricultural products.
.2 Mining products. See also 332.41, Coinage metals.
.3 Water ,, Fish, ice, etc.
.4 Manufactured products. Machinery in industry.
.5 Prices.
.6 Guilds. See also 331.88, Trades unions.
.7 Corporate industries.
.8 Monopolies. See also 336.19, State monopolies.
.9 Industrial legislation. Divided geographically like 940–999.

339 Pauperism. See also 379.22, Illiteracy; 362.5, Pauper asylums; 331.6, Pauper labor.

340 Law.

General works.

Most periodicals belong in Private law, 347.05.

.1 Philosophy. Theories. Law of nature.
.2
.3 Antiquities. Torture. Trial by ordeal. Duel, etc.
.4 Trial by jury.
.5 Comparative legislation.
.6 Medical jurisprudence. See also 614.23, Expert testimony.
.7 Education. Law school. Office training.
.8 Polygraphy. Collections.
.9 Legal anecdotes and miscellany.

Public law.

341 International law.

.01, Philosophy; .02, Compends, etc., like 300.

.1 International congresses.

Of diplomatic agents for settling international relations. Congresses on special topics go with their subjects; e. g. 332.44, on Coinage.

.2 Treaties. Texts and history.

Divided by countries publishing, like 940–999.

.3 Law of war. Captives. Neutrals.
.4 International criminal law.
.5 International private law.
.6 Arbitration.
.7 Diplomacy.
.8 Consular systems.

342 Constitutional law and history. broader than 328 or 350

Divided by countries like 930–999. Under each, works may be divided: 1, Texts of constitution; 2, Conventions; 3, Systems; 4, Essays; 8, Polygraphy; 9, History.

For Administrative law, see 350.

343 Criminal law.

.1 Criminal trials.
.2 Punishments.

Corporal. Death penalty. Hard labor. Confinement.

.3–9 Of special countries. Divided by countries like 930–999.

Under each country, works may be divided: 1, Penal codes; 2, Reports; 3, Criminal procedure; 4, Text books and manuals.

344 Martial law.

Private Law.

345 U. S. Statutes and Cases.

Divide each of the sections .1–.5, using 1, U. S.; 2, Individual states arranged alphabetically; e. g. Statutes at large of U. S., 345.11; Acts and resolves of Mass., 345.12.

.1 Session Laws.
.2 Codes. Revised Statutes.
.3 Law Digests (of Statutes).
.4 Reports.

Use .4, U. S. Supreme Court; .41, U. S. Circuit and District Courts; .415, Periodical collections of various states; e. g. Eastern Reporter, etc.; .42, Reports of individual states.

.5 Digests of Cases.

346 British Statutes and Cases.

Divided like 345. Includes all reports in English language except U. S. reports.

347 Treatises. American and English Private Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies, Bar associations; .08, Polygraphy; .09, History.

Put law of special topics with the subject; e. g. Insurance law, 368. The divisions .1–.8 may be disregarded and all English law text-books arranged in one alphabet by authors. An elaborate division, similar to Medicine, will be published after further revision.

.1 Persons. Legal Capacity.
.2 Realty.
.3 Chattels. Movables.
.4 Contracts.
.5 Torts.
.6 Family Law and Inheritance.
.7 Commercial and Maritime.
.8 Equity.
.9 Civil Trials. Procedure.
.91 Civil Trials.
.92 Pleading.
.93 Forms.
.94 Evidence. Testimony in general not limited to civil trials.
.95 Remedies.
.96 Justices of the Peace. Notaries. Sheriff.
.97 Organization of Courts.
.98 Jurisdictions.
.99 History of Special Courts.

348 Canon Law.

349 Foreign Law.

Divided like 930–999, and under each modern state divided like 345 with decimals .71 to .79 used for Treatises like 347. e. g. 349.4475 is French Law of Torts. 349.442 is French Code. Roman Law is divided:

.37 Roman Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History.

.371 Sources. Ante-Justinian.
.372 ,, Justinian.
.373 History and Criticism of Sources.
.374 Institutes. Ancient Roman Law.
.375 Pandects. Modern ,, ,,
.377 Treatises on Special Topics.
Divided like 347.

350 Administration.

Including Military science. .1, Theory; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History. A large number of the questions properly placed under Administration are classed with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject "Administration" and to provide for cross references by those specially interested. See also 342, Constitutional law and history.

351 Administration of Central Government.

.1 Organization of Civil Service.

Officers. Method of election or appointment. Official functions and powers. Mutual relations.

.2 Civil Lists.

.3 Examination.

.4 Tenure of Office. Discipline. See 351.92, Power of removal.

.5 Pensions.

.6 Reform. Spoils System vs. Office-holding Class.

.7 Subjects of Administrative Action.

See also 353, United States; 354, Foreign states.

.71 Financial Administration.

See 336, Finance, Public property, Taxation.

.72 Budget. Public Accounts.

.73 Internal Affairs.

See also 323, Domestic relations.

.74 Police Measures.

.75 Public Safety and Order.

See also 352.2, Police; 365, Prisons, etc.

1, Press.

2, Reunion and Association.

3, Weapons.

.76 Vice and Good Manners.

1, Liquor Regulation. See 178, Temperance.

2, Public Gaming. See 174.6, Ethics.

3, Public Begging, etc. See 339, Pauperism.

4, Prostitution. See 176.5, Ethics.

.77 Sanitary Police.

See 352.4, Boards of health; 614, Public health, etc.

.78 Accidents. See 614.8, Public health.

1, Buildings. See 614.85.

2, Fires. See 614.84.

351.8 Promotion of Public Welfare.

.81 Means of Communication.

See 380, Commerce, Communication.

1, Highways. See 386; 352.7, Local government.

2, Railways. See 385.

3, Waterways. See 386; 387.

4, Ferries.

5, Bridges. See 352.7, Local government.

6, Post Office. See 383.

7, Telegraphs. See 384.

.82 Trade and Industry.

1, Weights and Measures. See 389, Commerce.

2, Coinage and Money. See 332, Banks, Money.

3, Landed Industry.

Agriculture. See 630, Useful arts; 338.1, Production.

Forests. See 634.9, Agriculture; 333.7, Land.

Mines. See 622, Mining; 338.2, Production; 333.8, Land.

4, Commercial and Manufacturing Industry.

See 380, Commerce; 338, Production.

5, Institutions of Credit. See 332, Banks, Credit.

Savings Banks. See 332.2.

Mutual Benefit Societies. See 334, Coöperation.

Insurance. See 368; 334.3, Coöperative insurance.

Monts de piété. See 332.33.

.83 Labor. See 331, Capital, Labor, Wages.

.84 Public Charity.

See 339, Pauperism; 360, Associations and Institutions.

.85 Education and Worship.

1, Public Education. See 379, Education.

2, Public Libraries. See 027.4, Library economy.

3, Art Museums. See 708, Art.

7, Worship. See 322, Church and State.

Military and Naval. See 355-359, Army and Navy.

Justice. See 340, Law.

Foreign Affairs. See 341, International law; 327, Political science.

.9 Control over the Administration.

.91 Administrative Control.

By superior officers.

.92 Disciplinary Power.

Power of removal. See also 351.4, Tenure of office.

.93 Supervision.

Power to annul or amend specific acts.

.94 Judicial Control.

1, Ordinary Courts. See 347.5, Law of torts.

5, Criminal Courts. See 343, Criminal law.

.95 Administrative Courts.

.96 Parliamentary Control.

.97 Petitions and Addresses.

.98 Investigations.

.99 Impeachment.

352 Local Government. Town. City. County.

See also 379, Public schools; 020, Libraries.

General Questions of Municipal Administration.

.001 Growth and importance of cities.
.002 Cities and state control.
.003 City as a juristic person,—a corporation.
See also 347.1, Law of corporations.
.004 City organization, municipal elections.
.005 Municipal civil service.

Local Administration of Special Countries and Cities.

.03–.09, divided by countries like 930–999.

.042 Local Government in England.

Arrange matter relating to special cities alphabetically by name of city and subdivide the remaining works as follows:

1, County.
2, Municipal borough.
3, Parish.
4, Union. See 339, Pauperism.
5, Sanitary districts. See 614, Public health.
6, School districts. See 379, Education.
7, Highway areas. See 352.7.

.043 Local Government in Germany.

Special cities like 352.042.

1, Province. Landtag, Provincial Committee, Director.
2,
3, Circle, Circle Diet, Circle Committee, Landrath.
4, Commune.
5, Towns.
6, Township.

.044 Local Government in France.

Special cities like 352.042.

1, Department.
2, General council.
3, Departmental commission.
4, Prefect.
5, Arrondissement.
6, Commune.
7, Mayor.
8, Municipal council.

.1 **Finances. City Property and Local Taxation.**
See also 336, Finance.

.2 **Police.**

.3 **Fire Department.** See also 621.68, Fire engines; 614.84, Fires.

.4 **Public Health. Board of Health.** See also 614, Medicine.

.5 **Public Buildings and Works.**

.6 **Water and Sewerage Works.** See also 628, Sanitary engineering.

.7 **Streets. Highways. Bridges. Parks.**

.8 **Licenses. Hack, Huckster, Entertainment, etc.**

.9 **Other Topics.**

353 United States and State Government. executive

See also 342.73, Constitutional law and history.

.01, Administrative centralization.
.02, Separation of powers.
.03, President.
.04, Departments.
.05, Cabinet.

.1 **State Department.**

.2 **Treasury** " See also 336.73, Finance of U. S.

.3 **Interior** "

.4 **Post Office** " See 383.

.5 **Judiciary** "

.6 **War** " See 355, Army. Military science.

.7 **Navy** " See 359, Navy. Naval science.

.8 **Other** "

.9 **State Government.** Divided like 974–979.

Apply same decimals for State and Foreign Governments. For departments not here specified use .8 and .9, and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dept. of D. C. 353.97535.

353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th Regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476.

354 Organization of Central Government. Foreign States.

See also 342, Constitutional law and history.

Divided geographically by countries like 930–999. Under each country the U. S. divisions, 1, State, 2, Treasury, etc., may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Monarch.
04, Privy council.
05, Cabinet.

.43 Administration of Germany. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Empire.
04, Bundesrath.
05, Emperor.
06, Ministry.
07, States. Monarchs.
08, Landtag. Ministers. Council of state.
09, Free cities.

.44 Administration of France. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, President.
04, Ministers.
05, Council of state.

355 Army. Military Science. See 623, Military engineering.

Limited to military science, tactics, etc. For War department of U. S. or history of regiments, see 353.6 and 353.9. Divided by a 0, like 350.

356 Infantry.

357 Cavalry.

358 Artillery.

359 Naval Science. See 623.8, Naval engineering.

Divided by a 0, like 350.

360 Associations and Institutions.

This covers what is best known as "Charities and Corrections," and general works on this topic go in 360. Note. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London are 367.9421.

361 Charitable. See also 377.7, Charity schools.

362 Hospitals, Asylums, and Allied Societies.

For Inebriate asylums, see 178.6, Temperance reformatories.

.1 **Sick and Wounded. Incurables. Eye and Ear Infirmaries. Lying-in Hospitals. Dispensaries.**

.2 **Insane.** See also 132.1, Insanity.

.3 **Idiotic.** See also 132.2, Idiocy; 371 93, Education.

.4 **Blind. Deaf. Dumb.** See also 371.91 and 371.92, Education.

.5 **Paupers.** See also 339, Pauperism; 331.6, Pauper labor.

.6 **Aged.**

.7 **Children. Orphans. Foundlings.** See also 179.2, Cruelty, ethics.

.8 **Other.**

.9 **Special Countries.**

Divided like 930–999; e. g. 362.942 is Hospitals of England.

363 Political. Tammany, Primrose League, Ku Klux, etc.

364 Reformatory. Schools. Discharged convicts. Criminal classes.

365 Prisons. Discipline. See also 331.5, Convict labor.

366 Secret Societies. .1, Masons; .2, Knights of Pythias; .3, Odd Fellows; .4, Rosicrucians.

See also 371.85, College secret societies.

367 Social Clubs.

368 Insurance. See also 334.3, Co-operative Insurance.

.1, Fire; .2, Marine; .3, Life, .31, Annuities; see also 336.35, Public annuities; 519.5, Probabilities; **.4, Accident; .5, Animal and Crop; .6, Plate Glass; .7, Boiler; .8, Credit and Bonds; Land Titles; .91, Government Control; Commissioners.** 93–99 divided geographically like 930–999; e. g. Insurance in New York (including state reports, etc.) is 368.9747.

369 Other. Cincinnati.

370 Education.

.1, Philosophy, Theory; .2, ; .3, Dictionaries, Cyclopædias; .4, Essays, Addresses; .5, Periodicals (for College Papers, see 378); .6, Societies, Associations; .7, Education, Teachers' Institutes, Normal Schools; .8, Polygraphy; .9, History divided by countries, like 930–999.

371 Teachers, Methods, and Discipline.

.1 **Teachers.**

.11 Qualifications.
.12 Training.
.13 Examination. Certificates.
.14 Appointment. Tenure.
.15 Permanent Profession vs. Stepping-stone Theory.
.16 Salary and Promotion.
.17 Pensions for Teachers.
.18 Women as Teachers.
.19

.2 **School Organization.**

.21 Admission. Enrollment. Matriculation.
.22 Tuition Fees.
.23 Terms. Vacations. Holidays. See also 613.76 and 613.77, Hygiene.
.24 Hours. Recess.
.25 Classes. Grades.
.26 Marking System.
.27 Examinations. Oral, Written. Cramming. See also 428.9, Language.
.28 Promotions.
.29 Graduation. Diplomas.

.3 **Methods of Instruction.**

.31 Rote or Concert Teaching.
.32 Text Books. Recitations.
.33 Lectures.
.34 Developing or Inductive Method.
.35 Art of Questioning.
.36 Topical Method.
.37 Seminary Method.
.38 Laboratory Work.
.39 Other Methods. Correspondence.

.4 **Systems of Education.**

.41 Bell and Lancaster, or Monitorial.
.42 Fellenberg's or Manual Labor.
.43 Military Organization.
.44 Pestalozzian.
.45 Jacotot's.
.46 Fröbel's. See 372.2, Kindergarten.
.47 "Quincy System."

.5 **Government. Discipline.**

.51 Rules.
.52 Attendance. Truancy. Tardiness.
.53 Rewards. Prizes.
.54 Punishment.
.55 Corporal Punishment.
.56 Confinement. Tasks.
.57 Monitors.
.58 Moral Government. Alcott.
.59 Student Self-government.

371.6 **School Furniture and Apparatus.**

.61 Furniture.
.62 Lavatories, etc.
.63 Globes, Maps, etc. 912.
.64 Libraries. See 021.3. 027.8.
.65 Museums.
.66 Apparatus.
.67 Laboratories. 542.1.
.68 Observatories. 522.1

.7 **School Hygiene.** 613.

.71 Health of Students. Over-study.
.72 Care of Eyes. Effect of Study.
.73 Care of Body. Gymnastics. Calisthenics. See also 613.71, Hygiene.
.74 Recreations. Games, etc. See also 613.74, Play; 796, Out-door sports.
.75 Championship Games. Boat-races.
See also 175.7, Ethics; 613.73, Hygiene; 796, Out-door sports.
.79 Other Special Topics.

.8 **Student Life and Customs.**
See 784.6, College Songs; 378.29, College Costumes.

.81 Student Honor. Cribbing. Cheating. Keys. "Pones."
.82 Fagging and Hazing.
.83 Student Organizations.
.84 Literary Societies.
.85 Secret Societies. See also 366, Secret societies. Chapters in special college go here with reference from the college.
.86 Society Houses. Halls. Temples, etc.
.87 Dormitories.
.88 Commons.
.89 Customs. Celebrations. Triumphs. Burnings, etc.

.9 **Education of Special Classes.**

.91 Blind. See also Asylums, 362.4; 655.
.92 Deaf and Dumb. See also Asylums, 362.4.
.93 Feeble-minded. See also 362.3, 132.2, 920.8.
.94 Freedmen. Negro.
.95 Indians.
.96 Orientals.
.97 Criminals. Reform Schools. See also 364, Reformatories
.98 Special Nationalities. e. g. Germans in U. S.
.99 Co-education of Races.

372 Elementary Education. Primary Schools.

.1 **Special Methods of Government.**
.2 **Kindergarten.**
.3 **Observing Powers. Object Teaching. Science.**
.4 **Reading. Alphabet. Phonics and Word Methods.**
See also 428.6, Elementary readers.
.5 **Elementary Writing and Drawing.** See also 741.
.6 **Elementary Grammar. Language Lessons.** See also 428.2.
.7 **Elementary Arithmetic.** See also 511.
.8 **Elementary Geography.** See also 910.7.
Some may prefer to put these Elementary Text Books with their subjects, but a Primer of Geography is more useful to the Student of Elementary Schools and Methods than to one interested in Description, Travels, and Geography. Text books, except primary, go with the subject.

.9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; e. g. 372.942, English elementary schools.

373 Intermediate. Academic. Preparatory.

The discussions of theories, methods, etc., are classed regardless of the public support; but schools classed in 372.9, 373.4–9, 376.9, 377.3–7, and 378.4–9 are all private or endowed, except parts of Primary, schools for women, and colleges which, even supported by public funds, are preferably classed in 372.9, 376, and 378. All other "public" schools, i. e. paid for from the public treasury, are groupt under 379.4–9. Besides schools, such topics as "American students in Europe" go naturally in 373.4 or, if the topic be "European universities," in 378.4. Peabody & Slater funds go in 373.75.

.1 **Home Education. Tutor. Governess.**
.2 **Day Schools.**
.3 **Boarding Schools.**
.4–9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; 373.42, Higher English Schools.

374 Self-education and Culture.

.1 **Private Reading. Conversation.** See 028.
.2 **Reading Circles. Book and Periodical Clubs.**
.3 **Lyceums. Literary Clubs.**
.4 **Debating Societies.**
.5 **Popular Lectures.**
.6 **Popular Summer Schools.**
See also 407, 507, for Schools of Science, etc., for specialists, which are classed with their subject not with these popular gatherings.
.7 **Chautauqua Courses.**
.8 **Societies for Home Study, Correspondence Colleges.**
.9 **Institutions. e. g. Cooper Union.**

375 Curriculum.

.01, Order of Studies; .02, Single Course; .03, Parallel Courses; .04, Optional Studies: .1–.9, Special Studies, in the order and subdivided like 100–999. e. g. 375.5, Place of Science in Curriculum; 375.82, Place of English Literature; use 375.84 also for General Questions on Modern Languages, and 375.88 for Classics.

376 Education of Women. 396.4.

.1 **Physical Capacity of Women.**
.2 **Mental Capacity of Women.** See 136.1.
.3 **Domestic Education.**
.4 **Fashionable Education.**
.5 **Conventual Education.**
.6 **Collegiate Education.**
.7 **Co-education.**
.8 **Colleges for Women.** Degree conferring colleges go here. All other schools for women go in 376.9.
.9 **Special Countries and Schools. History. Reports, etc.**
Subdivided like 940–999; 376.943, Education of women in Germany.

377 Religious, Ethical, and Secular Education.

.1 **Bible in public schools.**

.2 **Ethical education.** See also 170.7, Ethics.

.3 **Monastic schools.** See also 271, Monastic orders.

.4 **Diocesan schools.**

.5 **Parochial schools.** See 257.

.6 **Missionary schools.** See 266.

.7 **Charity schools.** See also 361, Charitable institutions.

.8 **Church and education.** See also 261.5, Church.

Subdivided like 280; e. g. 377.82, Relation of Roman Catholic church to education.

.9 **Non-Christian religions and education.**

Subdivided like 290; e. g. 377.97, Relation of Mohammedanism to education.

378 Colleges and Universities. With power of conferring degrees.

.1 **University Education.**

.13 University extension.

.2 **Academic Degrees and Costume.** See 614.21, Medical degrees.

.21 Degree-conferring body. College, University, or State.

.22 Graded degrees. Cum laude, etc.

.23 Degrees in course.

.24 Degrees on examination.

.25 Honorary degrees.

.26 Degrees by purchase or forgery.

.27

.28

.29 Academic gowns and hoods.

.3 **Fellowships. Endowment of research.**

.4-9 **Special countries and colleges. History, reports, etc.**

For Women's colleges, see 376.8.

Subdivided like 940–999. e. g. 378.42, English universities; 378.741, Maine colleges.

The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figure) used to designate the college; e. g. a history of Harvard college would be marked 378.744—HE, and a second history would be book numbered HE1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers.

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS.

A Charter and Statutes.
B Trustees. Regents. Resolutions, reports, etc.
C Administration. President, Chancellor. Reports, etc.
D Finances. Treasurer's reports.
E History. Foundation, growth, etc.
F Biography. Necrology.
G General Catalogs. Triennials, etc.
H Annual Catalogs. Attendance, registers, etc.
I Handbooks. Circulars of information.
J Bulletins. Official periodicals.
K Addresses. Inaugurals. Baccalaureates. Commencements, etc.
L Programs. Tickets. Memorabilia.
M Faculty (as a body). Publications. Regulations. Certificates for admission, etc.
N Lectures. Class manuals. Examination questions.
O Student theses. Orations, essays, etc.
P Student catalogs. Society annuals, etc.
Q Student periodicals.
R Student societies, including periodicals.
S Student miscellany. Songs. Class day, etc.
T Alumni. Societies, committees, etc.
U Classes. Histories, records, etc.
V Pictures. Class albums.
W Buildings and grounds. Descriptions, maps, etc.
Z Schools. Divinity, law, medical, etc.

379 Public schools. State education.

.1 **Public school system.**

.11 School funds.

.12 National aid to education. Land grants. See also 336.14, Finance.

.13 Local Taxation. See also 336.28, Taxation.

.14 School laws. School age.

.15 School supervision; National, state, and local. Duties of parents.

.16 National and State Universities.

Only discussion here; for special colleges, see 378.4-9.

.17 Secondary schools. High schools. Academies. Grammar schools.

.18 Primary schools.

.19 Evening schools.

.2 **Illiteracy.**

.21 Illiteracy and Crime.

.22 Illiteracy and Pauperism. See also 339, Pauperism.

.23 Compulsory education.

.24

.3 **Public vs. private and endowed schools.**

.4-9 **Special countries, sections, cities or schools.**

Subdivided like 940-999. e. g. 379.73, Reports of U. S. Commissioner of Education; 379.74, Education in Massachusetts; 379.7471, in New York City.

380 Commerce, Communication.

The technical side of these questions goes mostly in 650, Useful Arts. Here belong discussions of social and political relations; e. g. government control of railroads, telegraphs, etc.

381 Domestic Trade.

382 Foreign Trade. Consular reports.

383 Post Office. See also 353.4, U. S. administration.

384 Telegraph. Cable. Telephone. See 654.

385 Railroad and Express. See 656, Railroading.

386 Canal and Highway Transportation. "

387 River and Ocean Transportation. "

388 City Transit. See 625.

389 Weights and Measures. Metrology. See 658.

390 Customs. Costumes. Popular Life.

These heads are for discussions by topic. Customs, etc., of any special country go in 913–919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese Customs, 915.2. For Customs of Primitive Man, see 571.

391 Costume and Care of Person. See 646, Clothing; 613.4, Hygiene.

- .1 Costumes of Men.
- .2 Women.
- .3 Children.
- .4 Extremities. Hats, Gloves, Sandals, Shoes, Stockings, etc.
- .5 Hair Dressing, Barbers.
- .6 Care of Person, Bathing, Toilet.
- .7 Ornaments and Jewelry.
- .8

392 Birth, Home, and Sex Customs.

- .1 Birth Customs, Christening, Circumcision.
- .2 Sacrifice and Exposure. See 173.4, Ethics.
- .3 Family and Home Relations.
- .4 Betrothal.
- .5 Marriage.
- .6 Sex Relations, Concubinage.
- .7

393 Treatment of the Dead. See 614.6, Public Health.

- .1 Earth Burial. See 719, Cemeteries.
- .2 Cremation.
- .3 Embalming, Mummies.
- .4 Exposure.
- .9 Special Funeral Customs. Wake, Suttee.

394 Public and Social Customs.

- .1 Eating, Banquets.
- .2 Shows and Diversions.
- .3 Games, Dances, etc.
- .4 Ceremonies.
- .5 Processions.
- .6 Fairs.
- .7 Chivalry, Tournaments.
- .8 Duelling, Suicide.

See 179.7, Ethics; 340.3, Law, Trial by Ordeal.

395 Etiquet.

396 Woman's Position and Treatment.

For Costumes, see 391.2; Biography, 920.7.

If a special library about women is wished, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc., but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of Women, from the rest of medicine. Books on woman in general go in 396.

.1 **Emancipation.**

.2 **Legal Status, Property, Rights, etc.**

.3 **Political Status.** See 324.3, Suffrage; 329.83, Woman Suffrage Party.

.4 **Education.** See also 376, Education of Women.

.5 **Employment.** See 331.4, Labor of Women; 371.18, Teachers.

Divided like General Classification; e. g. Woman as scientist, 396.55; woman as painter, 396.575; woman as author, 396.58, etc.

.6 **Woman in Home.**

.7 **Delineation of Woman in Art.**

.8 **Delineation of Woman in Literature.**

.9 **Woman in History, Politics, War. Amazons.**

397 Gipsies. Nomads. Outcast Races.

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which has no place in the linguistic groups of 400, as the Gipsy people have no place in the geographical divisions of history.

398 Folk-lore. Proverbs, etc. See also 291-3, Mythology.

This section is for material needed in studying Folk-lore. Mere Stories for Children, unless having a value to students of Folk-lore, go in 823, or in J, if there be a Juvenile collection.

.1 **Primitive Traditions.**

.2 **Legends.**

.3 **Folk-lore.**

.4 **Fairies, Elves etc.**

.5 **Chapbooks.**

.6 **Riddles.**

.7 **Dream Books.**

.8 **Song Books.** Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folk-lore, etc.

.9 **Proverbs.**

399 Customs of War.

Weapons. War Dances. Treatment of Captives. Scalping. Mutilation. Burning. Cannibalism.

Philology.

400 Philology in General.

In Philology the general works put under 400–419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479, and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group.

401 Philosophy, Origin of Language.

402 Compends, Outlines.

403 Dictionaries, Cyclopedias.

404 Essays, Lectures, Addresses.

405 Periodicals.

406 Societies, Transactions, etc.

407 Education, Teaching Languages.

408 Polygraphy, Collections.

.9 **Universal Language.** .91 **Volapük.**

409 History of Language.

410 Comparative.

410–419 includes *comparative* works in *general* and also those on the Indo-European group in general, but general *and comparative* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language.

411 Orthography, Orthoepy, Alphabets.

412 Etymology, Derivation.

413 Dictionaries, Lexicography.

414 Phonology. Visible Speech.

415 Grammar, Morphology, Syntax.

416 Prosody.

417 Inscriptions. Palæography. See 421.7, 471.7, 481.7, etc.

Rare early mss. are put in 091.

418 Texts.

419 Hieroglyphics. See 493.1.

.1 **Sign Language.** For deaf mute alphabets, see 371.92.

420 English Philology.

.1, Philosophy; .2, Compends; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collective Works; .9, History of the Language.

421 Orthography.

See also this head treated in general grammars placed under 425.

.1 Alphabet. For Deaf Mute Alphabets, see 371.92.
.2 Vowels. Diphthongs. Aspirates.
.3 Consonants.
.4 Phonetic Spelling. Spelling Reform.
.5 Orthoepy.
.6 Accent.
.7 Palæography. Inscriptions.
.8 Abbreviations. For Stenographic and other uncommon contractions and abbreviations, see 653, Shorthand.
.9 Punctuation.

422 Etymology. Derivation.

422 is limited to Derivation. For Inflection, also called Etymology, see 425.1.

.1 Origin and Laws of Language.
.2 Prefixes. Suffixes.
.3 Reduplication.
.4 Foreign Elements.
.5 Noun Forms. Case, Number, Diminutives.
.6 Adjectival Forms. Degrees of Comparison.
.7 Pronominal Forms. Personal, Possessive, Relative, etc.
.8 Verbal Forms. Moods, Tense, Voice, etc.
.9 Particles. Adverbs, Prepositions, etc.

423 Dictionaries. Idioms.

.1, Idioms; .2, English; .3, German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i. e. that by which it is alphabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tongues is more convenient. References in either case show what may be found in the other place.

424 Synonyms. Homonyms.

425 Grammar.

425 includes General Works, covering also Orthography and Prosody.

.1 Morphology. Inflection. Divided, .5 Nouns, etc. See 422.
.2 Syntax.
.3 Arrangement of Words and Clauses.
.4 Particular Sentences; Conditional, Hypothetical, etc.
.5 Nouns.
.6 Adjectives. Articles.
.7 Pronouns.
.8 Verbs.
.9 Particles.

426 Prosody.

See also the head Prosody, in General Grammars 425.

.1 Quantity and Accent.
.2 Versification.
.3 Feet.
.4 Figures of Prosody.
.5 Meters.
.6 Rhymes.
.7 Strophe and Antistrophe.
.8 Textbooks for Writing Verse.
.9

427 Dialects. Early Forms of Language. Slang.

Subdivided by geographical divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect, 427.41. The dialects of other languages take the geographical subdivisions of their countries. Dialects not provided for in these heads are placed with the last, e. g. American and Scotch with 427.9. The division by time is made with a fifth figure after 0; the earliest form of the language is marked .01; .09 is used for modern slang, e. g. 427.01, Old English.

428 School Books. Texts for Learning the Language.

Including only books for *learning* the language, with grammatical or philological notes, etc. For other works see the literature of the language, 820.

.1 Spelling Books.
.2 First Lessons. Elementary Composition. For Rhetoric see 808.
Including in other languages books like Fasquelle, Ollendorff, Latin Prose, etc.
See also 372.6, Elementary Grammars.
.3 Errors of Speech. Vulgarisms. Use of Words.
See 427.09, Slang; 424, Synonyms.
.6 Elementary Readers. See also 372.4, Education.
.7 Selections.
.8 Texts of Individual Authors.
.9 Examination Papers.

429 Anglo-Saxon.

The above subdivisions of English are used for all other languages and for 410, Comparative Philology.

All Languages are subdivided like 420 English.

430 German.

437.01, Old High German; 437.02, Middle High German.

439 Minor Teutonic.

Including general works on Teutonic group.

- .1 Low German.
- .2 Frisian. Old Saxon.
- .3 Dutch. Flemish.
- .4 Platt Deutsch.
- .5 Scandinavian.
- .6 Old Norse. Icelandic. Faroese.
- .7 Swedish.
- .8 Danish. Norwegian.
- .9 Gothic.

440 French.

449 Provençal

Old French, as the earliest form of the language, is 447.01

450 Italian.

459 Wallachian.

- .9 Rumansh.

460 Spanish.

469 Portuguese.

470 Latin.

479 Minor Italic. Mediæval Latin.

Including general works on Romance group.

480 Greek.

Divide 487, Greek Dialects, like 930; e. g. 487.2, Alexandrian Greek; 487.3, New Testament Greek; 487.81, Macedonian; 487.923, Ionic, etc.

489 Minor Hellenic. Modern Greek.

Including general works on Hellenic group.

Works on Latin and Greek together, unless very clearly most useful in the Latin, go with the Greek, which here as elsewhere is made to include general works on the ancient classics.

490 Minor Languages.

Each language subdivided if wished like 420 English.

491 Minor Indo-European.

(Beside Teutonic, 420–439, Italic, 440–479, and Hellenic, 480–489.) This head, 491, includes general works on the Indo-European tongues, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also 410.

- .1 Indic.
- .2 Sanskrit. Prakrit.
- .3 Pali.
- .4 Modern East Indian Languages.

  Excluding Dravidian, which is 494.

  - .41 Sindhi.
  - .42 Panjabi.
  - .43 Hindustani. Hindi.
  - .44 Bengali.
  - .45 Uriya. Orissa.
  - .46 Marathi.
  - .47 Gujerati.
  - .48 Singhalese.
  - .49
- .5 Iranic.
  - .51 Old Persian.
  - .52 Zend. (Avestan.) Old Bactrian.
  - .53 Pehlevi. (Huzwaresh.)
  - .54 Armenian.
  - .55 Modern Persian.
    - .56 Ossetic.
    - .57 Kurdish.
    - .58 Afghani.
    - .59
- .6 Keltic.
  - .61 Gadhelic Group.
    - .62 Irish.
    - .63 Gaelic or Scotch.
    - .64 Manx.
  - .65 Cymric Group.
    - .66 Welsh or Cymric.
    - .67 Cornish.
    - .68 Armorican or Bas Breton.
  - .69 Basque.
- .7 Russian.
  - .79 Ruthenian

491.8 Other Slavonic.

South East Slavonic Group.

.81 Bulgarian. (Church Slavonic.)
.82 Servian.
.83 Kroatian.
.84 Slovenian.

West Slavonic Group.

.85 Polish.
.86 Bohemian.
.87 Moravian. Slovakian.
.88 Sorbian.
.89 Polabian.

.9 Lettic.

.91 Old Prussian.
.92 Lithuanian.
.93 Lettish. (Livonian.)

492 Semitic.

Northern Group.

.1 Aramaic.
.19 Babylon and Nineveh Cuneiform.
.2 Chaldee.
.3 Syriac. (Peshito.)

Central Group.

.4 Hebrew.
.5 Samaritan.
.6 Phenician. (Carthaginian.)

Southern Group.

.7 Arabic.
.8 Ethiopic. (Amharic.)
.9 Himyaritic.

493 Hamitic.

.1 Old Egyptian. See 419 Hieroglyphics.
.2 Coptic.

494 Scythian. Ural-Altaic. Turanian.

Dravidian. Tamil. Finnish. Turkish.

495 Eastern Asiatic. Chinese.

496 African.

Excluding 493 Hamitic, 492.8 Ethiopic, etc., included in families above.

497 North American.

498 South American.

499 Malay-Polynesian and other.

The Gypsy language is not assigned to any group, but is placed for convenience with 397, Gypsies.

Natural Science.

500 Science in General.

501-509 all have *Science in General* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

501 Philosophy, Theories, Utility, etc.

502 Compends, Outlines, Ancient and Mediæval Science.

503 Dictionaries, Cyclopedias, etc.

504 Essays, Lectures, Addresses.

505 Periodicals, Scientific Magazines.

506 Societies, Transactions, etc.

507 Education, Methods of Teaching and Studying, etc. Museums. See also 370.

508 Polygraphy, Collected Works, Extracts, etc.

.1, Extracts; .2, ; .3, General scientific travels; .4—.9, Travels and surveys (if general) divided geographically like 940–999.

509 History of Science.

510 Mathematics.

Works on Mathematics in General, not limited to any one or two sections, are grouped by form of treatment like Science in General above; *i. e.*, into Mathematical.

510.1, Philosophy; .2, Collections, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Education; .8, Logarithmic and other Tables, Instruments; .9, History.

511 Arithmetic. See 372.7, Teaching arithmetic.

.1 Systems of Arithmetic. See also 512.81.
.2 Notation and Numeration. Fundamental Rules. Abacus.
.3 Prime Numbers.
.4 Fractions.
.5 Analysis. Permutation and Combination.
.6 Proportion and Progression. .61, Magic Squares.
.7 Involution and Evolution.
.8 Mercantile Rules. Interest. Alligation. Mensuration. Gauging. See 658, Business manuals.
.9 Problems and Tables.

512 Algebra.

.1 **Systems of Algebra.**

.2 **Numerical Equations. Imaginary Expressions.**

.21 Equations, 1st to 4th degrees.
.22 Higher Numerical Equations.
.23 Indeterminate Equations. Diophantine Analysis.
.24 Imaginary Expressions.

.3 **Algebraical Equations. Maxima and Minima.**

.4 **Series. Fractions. Binomial Theorem. Taylor's Theorem.**

.5 **Combinatory Analysis.**

.6 **Proportion and Progression.**

.7 **Involution and Evolution.**

.8 **Higher Algebra.**

.81 Theory of Numbers. See 511.1, Systems of Arithmetic.
.82 Theory of Equations. Complex Variable. See also 517.8.
.83 Determinants.
.84 Symmetric Functions.
.85 Elimination. Eliminants and Discriminants.
.86 Transformations. Substitutions.
.87 Quantics.
.88 Invariants. Covariants. Contravariants.
.89

.9 **Problems and Tables.**

513 Geometry.

Plane and Solid Geometry bound together is put 513. Descriptive Geometry is 515. See also Mathematical Drawing, 744.

.1 **Plane Geometry.**

.11 Right Lines.
.12 Intersecting Lines.
.13 Parallel Lines.
.14 Triangles.
.15 Quadrilaterals.
.16 Other Polygons.
.17 Similarity.
.18 Areas.
.19 Maxima and Minima

.2 **Curves.**

.21 Circles.
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

513.3 **Volumetric or Solid Geometry.**

.31 Lines and Planes.
.32 Intersecting Planes.
.33 Parallel Planes.
.34 Polyedrons.
.35 Pyramids.
.36 Prisms.
.37 Regular.

.4 **With Curved Surfaces.**

.41 Sphere.
.42 Cone.
.43 Cylinder.

.5 **Modern Geometry.**

.51 Points. Lines. Planes. Duality.
.52 Transversals.
.53 Cones. Conics. Involution.
.54 Radical Axes and Centres of Similitude.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Correspondence. Correlation of Figures.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvature.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 **Absolute or Non-Euclidean Geometry.**

.9 **Problems.**

514 Trigonometry.

.1 **Trigonometric Functions. General Formulæ.** See 522.7.

.2 **Trigonometric Series.**

.3 **Exponential Formulæ.**

.4 **Solution of Trigonometric Equations.**

.5 **Plane Trigonometry. Solution of Plane Triangles. Analytical.**

.6 **Spherical Trigonometry. General Formulæ.**

.7 **Solution of Spherical Triangles.**

.8 **Differences of Triangles, Plane and Spherical.**

.9 **Problems.**

515 Descriptive Geometry and Projections.

See also 744, Mathematical drawing.

.1 Orthogonal Projection on Two Planes.

.11 Straight Lines. Planes.
.12 Single Curved Lines.
.13 Double Curved Lines.
.14 Single Curved Surfaces.
.15 Double Curved Surfaces.
.16 Surfaces of Revolution.
.17 Warped Surfaces.
.18 Intersections of Surfaces.

.2 Isometric and Analogous Projections.

.3 Oblique Projection.

.4 Conical Projection.

.5 Spherical Projection. See 526.8, Map projection.

.51 Orthographic.
.52 Globular.
.53 Stereographic.
.54 Polar.
.55 Gnomonic.
.56 Conical.
.57 Cylindric.

.6 Perspective. See also 742, Drawing.

.61 Plane. Parallel. Oblique. Angular.
See also Scene Painting.
.62 Cylindrical.
See also Panorama Painting.
.63 Shadows; Natural and Artificial Light.
.64 Reflections.
.65 Circles, Cylinders and Spheres.
.66 Distortions and Corrections.
.67 Human Figure.
.68 New Methods. Special devices.

.7 Shades and Shadows.

.8 Stereotomy.

.81 Stone Cutting. See also 693.12, Masonry; 730, Sculpture.
.82 Carpentry. See also 694, Building.
.83 Stair Building. See also 694.8, Building; 729.39, Architectural design.

516 Analytical Geometry.

.1 Plane Loci.

.11 Right Lines.
.12
.13
.14 Transformation of Co-ordinates.

.2 Curves.

.21
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

CARTESIAN.

.3 Loci in Space.

.31 Right Lines.
.32 Planes.
.33
.34 Transformation of Co-ordinates.

.4 Curved Surfaces.

.41
.42 Conicoids or Quadric Surfaces.
.43 Ellipsoid.
.44 Hyperboloid.
.45 Paraboloid.
.46 Surfaces of Higher Order.

.5 Modern Analytical Geometry.

.51 Systems of Co-ordinates.
.52 Abridged Notation.
.53 Conics.
.54 Higher Plane Curves.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Method of Projection.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvatures.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 Quaternions. Calculus of Direction and Position

.9 Problems.

517 Calculus.

.1 **Infinitesimal. Method of Exhaustions.**
Differential and Integral Calculus, *bound together*, is put here.

.2 **Differential.**

.21 Series.
.22 Indeterminate Forms.
.23 Change of the Independent Variable.
.24 Theory of Plane Curves. Curve Tracing.
.25
.26 Theory of Curved Surfaces.
.27 Maxima and Minima.
.28
.29 Problems.

.3 **Integral.**

.31 Formulæ of Reduction and Integration.
.32 Definite Integrals. Eulerian Integrals.
.33 Rectification. Quadrature. Cubature.
.34 Multiple Integrals.
.35 Laplace's Functions. Bessel's and Allied Functions.
.36 Elliptic and Hyperelliptic Functions. Abelian Functions.
.37
.38 Differential and Partial Differential Equations.
.39 Problems and Tables.

.4 **Of Variations.**

.5 **Of Functions.**

.6 **Of Finite Differences.**

.7 **Of Operations**

.8 **Of Imaginaries. Complex Variables.** See also 512.82.

.9 Problems.

519 Probabilities.

.1 General Principles. Direct and Inverse Probabilities.
.2 Mathematical and Moral Expectation.
.3 Testimony. Decisions of Juries and Tribunals.
.4 Probability of Future Events deduced from Experience.
.5 Life Contingencies. Annuities. Life Insurance. See 368.3.
.6 Errors of Observation. Mean or Average Values.
.7
.8 Method of Least Squares.
.9 Problems.

520 Astronomy.

520.1, Astrology, see 133.5; 520.2, Compends; 520.3, Dictionaries; 520.4, Essays; 520.5, Periodicals; 520.6, Societies; 520.7, Study and Teaching of Astronomy; 520.8, Collections, etc.; 520.9, History of Astronomy. See Note under Natural Science in General, 500-509.

521 Theoretical Astronomy.

Mathematical investigation of celestial motions, specially of the Solar System. The motions of individual bodies are classed under separate heads in 523.

.1 **Celestial Dynamics.**

.11 General Laws of Equilibrium and Motion. See also 531.2.
.12 Law of Universal Gravitation and Motion Relative to the Sun. See also 531.51.
.13 Problem of Three Bodies.
.14 Figures of Heavenly Bodies.
.15 Rotation of Heavenly Bodies.

.2 **Geocentric and Heliocentric Place.**

.21 Plane of Orbit in Space.
.22 Position of Orbit in its Plane.
.23 Position of Body in its Orbit.
.24 Position of Body in Space.
.25 Heliocentric Longitude and Latitude.
.26 Geocentric Longitude and Latitude.
.27 Variations of Right Ascension and Declination.
.28 Variations of Longitude and Latitude.
.29

.3 **Orbits.**

.31 Definitions of Orbits.
.32 Determination from Three Observations.
.33 Determination from Four Observations.
.34 Variation of Elements of Orbit.
.35 Correction of Approximate Elements of Orbit.
.36 Application of Method of Least Squares.
.37 Kepler's Problem.
.38 Equation of Center and Radius Vector.
.39

.4 **Perturbations.**

.41 Mutual Action of Planets.
.42 Action of Satellites.
.43 Non-Sphericity of Planets.
.44 Resisting Medium.

.5 **Theory of Planets.**

.6 **Theory of Satellites.**

.7 **Theory of Comets.**

.8 **Theory of Eclipses.**

.9 **Precession and Nutation.** See 522.95-6.

522 Practical and Spherical.

.1 Observatories.

.11 General Plan, Location
.12 Material and Mechanism of Dome, Drum, etc.
.13 Transit Buildings, Wings, etc.
.14 High Altitude Observatories.
.15 Portable.
.16
.17
.18
.19 History Reports and Serial publications of Observatories.

.2 Telescopes. See 535.83, Optics.

.21 Reflecting.
.22 Refracting.
.23 Eye Piece and Accessories.
.24 Object Glass.
.25 Mounting, Tube, etc.
.26 Equatorial Mounting.
.27 Transit Mounting.
.28 Observing Chairs, etc.
.29 Famous Telescopes.

.3 Meridional Instruments.

.31 Finding Meridian Line.
.32 Mural Circles.
.33 Meridian Circles.
.34 Transit, Placing in Position.
.35 Collimation Constant
.36 Level Constant.
.37 Azimuth Constant.
.38 Other Constants, Flexure, Index Error, etc.
.39

.4 Extra Meridional Instruments.

.41 Sextant and Quadrant, Reflecting Circle, Astrolabe
.42 Alt-azimuth.
.43 Zenith Telescope.
.44 Transit out of Meridian.
.45 Heliometer.
.46 Equatorial.
.47 Prime Vertical.
.48
.49

522.5 Auxiliary Instruments.

.51 Sidereal Clock and Chronometer.
.52 Electro-Chronograph.
.53 Micrometers.
.54 Personal Equation Machine. See 522.97.
.55 For Illumination.
.56 For Solar Observation.
.57 Artificial Horizons.
.58 Heliostat.
.59

.6 Auxiliary Observations.

.61
.62 Photometry. See 535.2, Optics.
.63 Photography. See 535.85, Optics; 770, Photography.
.64
.65 Polarization. See 535.5, Optics.
.66
.67 Spectroscopy. See 535.84, "
.68
.69

.7 Spherical Astronomy. See also 514.6.

.71 Celestial Sphere. Spherical Co-ordinates.
.72 Rectangular Co-ordinates.
.73 Transformation of Co-ordinates.
.74 Differential Variations of Co-ordinates.
.75 Interpolation.
.76 Meridian Line. Variation of Compass.
.77 Reduction of Observations to the Meridian.
.78 Use of Globes.
.79

.9 Corrections.

.91 Parallax.
.92 Refraction. See 535.3, Optics.
.93 Semi-Diameter of Celestial Bodies.
.94 Aberration.
.95 Precession. See 521.9
.96 Nutation. " "
.97 Personal Equation. See 522.54.
.98 Instrumental Errors.
.99

523 Descriptive Astronomy.

.1 Universe.

.11 Structure of Universe.
.12 Nebular Hypothesis.
.13 Plurality of Worlds.
.14 Space and its Temperature.
.15 Resisting Medium.
.16 Cosmic Dust.
.17 Repulsive Force.

.2 Solar System.

.21 Distributive Laws of Planets.
.22
.23 Conjunctions and Oppositions.
.24 Motion of Solar System in Space.
.25 Constitution of Planetary System.
.26 Stability of Solar System. Ecliptic.
.27
.28 Orrery, Planetarium, Gyroscope, etc. See 531.34, Rotation.
.29 Zodiac.

.3 Moon.

.31 Constants (Size, Mass), Distance and Parallax.
.32 Heat and Light. Phases.
.33 Orbit and Motions: Sidereal Month, Tropical. Perigee and Apogee, Sun and Earth's Attraction, Librations. See also 521.5 for Orbit.
.34 Features of Surface, Mountains, Plains, etc.
.35 Atmosphere.
.36 Physical Condition.
.37 Spectrum.
.38 Eclipses
.39 Charts, Photographs, etc.

.4 Planets.

.41 Mercury and intra-Mercurial.
.42 Venus.
.43 Mars.
.44 Asteroids.
.45 Jupiter.
.46 Saturn.
.47 Uranus.
.48 Neptune and trans-Neptunian.
.49 Charts, Photographs, etc.

.5 Meteors and Zodiacal Light.

.51 Aerolites.
.52 Fire-balls.
.53 Meteoric Showers, Radiant Points, etc.
.54 Systems of Meteors.
.55
.56 Connection of Comets and Meteors
.57 Spectrum.
.58 Hight of Atmosphere from Observation.
.59 Zodiacal Light. Aurora Borealis.

523.6 Comets.

.61 Appearance and Development.
.62
.63 Orbits.
.64 Remarkable Comets.
.65
.66 Physical Constitution.
.67 Spectrum.
.68
.69 Charts, Photographs, etc.

.7 Sun.

.71 Constants, Dimensions.
.72 Heat and Light: Theories as to Source.
.73 Apparent Motion. Rotation. See 525.38, Tables.
.74 Spots, Faculæ, and Other Features of Surface.
.75 Prominences, Chromosphere. Corona.
.76 Theories of Physical Constitution.
.77 Spectrum.
.78 Eclipses.
.79 Charts, Photographs, etc.

.8 Stars.

.81 Stellar Parallax, Distance.
.82 Heat and Light. Photometric Observations. Magnitude. Visibility.
.83 Proper Motion, Star-drift.
.84 Variable, Double, and Multiple Stars.
.85 Clusters and Nebulæ.
.86 Physical Constitution.
.87 Spectrum.
.88
.89 Constellations, Maps, etc.

.9 Transits and Occultations.

.91 Transits of Mercury.
.92 Transits of Venus and Solar Parallax.
.93 Delisle's Method.
.94 Halley's Method.
.95 Photographic Method.
.96 Transits of Venus to 1874.
.97 Transit of 1882.
.98
.99 Occultations.

[524 Maps, Observations, and Tables.

Series of observatory publications may be kept together under 524, or under 522.19 with the History and Reports of the Observatory. Special maps or observations e. g. on Sun or Moon are better placed in sub-sections 9 *under these heads*, with Charts and Photographs, e.g. 523.79, thus leaving these bracketed Nos. 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep *all* Maps and Observations together.

.3 Of Moon. See also 523.39.
.4 Of Planets. See also 523.49.
.5
.6 Of Comets. See also 523.69.
.7 Of Sun. See also 523.79.
.8 Star Catalogues. See also 523.89.]

525 Earth.

.1 Constants.

.11 Mass. Weight.
.12 Density.
.13 Dimensions, Diameter.
.14 Figure. Geomorphy. Equatorial Belt.
.15 Distance from Sun.
.16 Parallax.

.2 Heat. Light.

.3 Orbits and Motions.

.31 Period of Revolution.
.32 Obliquity of Ecliptic to Equator.
.33 Eccentricity.
.34 Perturbations.
.35 Rotation.
.36 Foucault's Pendulum.
.37 Deviation of Falling Bodies and Projectiles.
.38 Tables of the Sun. Apparent Motion. See 523.73, Sun.

.4 Geographical Co-ordinates.

.41 Finding Latitude. See also 527.1.
.42 By Meridian Altitudes.
.43 By Pole Star.
.44 By Altitude of two or more Stars.
.45 By Other Methods.
.46 Finding Longitude. See also 527.2.
.47 Terrestrial Means. Chronometers. Telegraph. Signals.
.48 Celestial Signals. Eclipses. Occultations. Transits.
.49 Lunar Methods.

.5 Seasons.

.51 Effect of Inclination of Equator to Ecliptic.
.52 Effect of Eccentricity of Earth's Orbit.
.53 Secular Changes of Seasons.
.54 Seasons on Mars and Other Planets.

.6 Tides.

.61 Mathematical Theory.
.62 Effect of Sun and Moon in Producing Tides.
.63 Distribution, Diurnal Inequality, Spring and Neap, Priming and Lagging.
.64 Establishment of a Port. Coast Form Modification.
.65 Velocity of Hight of Tide Wave.
.66 Tides on Inland Seas.
.67 Supposed Effect in Retarding Earth's Revolution.
.68 Tide Registering and Predicting Machines.
.69 Tide Tables.

.7 Twilight.

526 Geodesy.

.1 Theory and Determination of Earth's Figure.

.11 Potentials of Ellipsoids.
.12 Equilibrium of Rotating Spheroid.
.13 Law of Ellipticity.
.14 Airy's and Pratt's Theories as to Attraction of Mountains.
.15 Determination of Figure by Airy, by Bessel, and by Clarke.
.16 Ellipsoidal Figure and Position of Axes.
.17 Geoidal Figure.
.18
19.

.2 Base Measuring and Apparatus.

.21 Standards of Length and Temperature.
.22 Apparatus of Struve, Bessel, Colby, U. S. Coast Survey, U. S. Lake Survey, etc.
.23 Adjustments of Apparatus.
.24 Location of Base Line.
.25 Field Operations.
.26 Calculation of Results and Corrections.
.27 Verification.
.28
.29

.3 Field Work of Triangulation.

.31 Reconnaissance.
.32 Stations: Names, Signals, Tripods, Scaffolds and Towers, Surface and Underground Monuments.
.33 Observations, Instruments and Records.
.34 Reduction to Station's Center.
.35 Corrections for Phase of Signal and Eccentricity.
.36 Spirit Levelling.
.37 Barometric Levelling.
.38 Trigonometric Levelling.
} These are methods. See 551.53, for results, lists of hights, etc.
.39

.4 Computation of Triangulation.

.41 Spherical Excess.
.42 Legendre's Theorem.
.43 Chord Process.
.44 By Spherical Trigonometry.
.45 By Spheroidal Trigonometry. See also application of Least Squares, 522.6.

.46 L. M. Z. Formulæ and Applications.

.47 Direct Deduction by Bessel.
.48 Deduction by Puissant.
.49 Tables for Computation.

526.5 **Theory of Least Squares in Adjustment of Figures, etc.**

.51 Method of Independent Angles.
.52 Adjustment of a Quadrilateral.
.53 Adjustment of Triangulation Net.
.54 Method of Directions.
.55 Adjustment for Closure of a Circuit.
.56 Method of Repetitions.
.57 Adjustments of Base Measures.
.58 Adjustments of Levelling.

.6 **Astronomic Determinations and their Connection with Geodetic Results.**

.61 Latitude Determinations.
.62 Longitude Determinations.
.63 Azimuth Determinations.
.64 Effect of Irregularities of Earth's Surface on Latitude, Longitude and Azimuth.
.65 Effect of same on Angles of Triangle.

.7 **Gravity Experiments and Results.**

.71 Mathematical Theory.
.72 Pendulum Apparatus.
.73 Pendulum Operations.
.74 Corrections.
.75 Reduction of Results.

.8 **Map Projections.** See 515.5, Spherical projections.

.81 Perspective Projections.
.82 Orthomorphic Projections.
.83 Development Projections.
.84 Zenithal Projections.
.85 Equivalent Projections.

.9 **Surveying.**

.91 Instruments and Methods. See 526.2.
.92 Measurement of Distances.
.93 Measurement of Angles.
.94 Measurement of Heights.
.95 Levelling. See 526.36–38.
.96 Plotting.
.97 Computation of Areas.
.98 Topographical Drawing.
.99 For Special Purposes. Military, Naval, Railroad, Mining, etc.

527 Navigation.

.1 **Finding Latitude at Sea.** See also 525.41.
.2 **Finding Longitude at Sea.** See also 525.46
.3 **Finding Time at Sea.** See also 529.74.
.4 **Sumner's Method.**
.5 **Great Circle Sailing.**
.6
.7
.8
.9

528 Ephemerides.

.1 **American.**
.2 **English.**
.3 **German.**
.4 **French.**
.5 **Italian.**
.6 **Spanish.**
.7 **Slavic.**
.8 **Scandinavian.**
.9 **Construction of Ephemeris.**

529 Chronology.

.1 **Sidereal and Solar Day:** Apparent and Mean Time, Equation of Time, Causes of Inequality.
.2 **Solar Year, Months.**
.3 **Calendars.** Including early and Oriental.
.4 **Calendar of Julius Cæsar.**
.5 **Calendar of Gregory.**
.6 **Ecclesiastical Calendar. Determination.**
For feasts, etc., and calendars themselves, see 264.021, 264.031, etc.
.7 **Horology.**

.71 Finding Time by Transit.
.72 Finding by Equal Altitudes.
.73 Finding by Single Altitude.
.74 Finding by Sextant. See also 527.3.
.75 Time Systems, and Standards.
.76 Distribution of Time.
.77 Cosmic Time.
.78 Instruments for Measuring: Dials, Hour-glasses, Clocks, Watches, etc.
See 522.51 for Sidereal Clocks and Chronometers.
See 681 for Clock and Watch making.
.79

530 Physics.

Like Science in General, viz.:

General works only are arranged: 530.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching, Experiments; .8, Physical Units, Measuring Instruments; .9, History.

531 Mechanics.

.1 **Pure Motion. Kinematics.**

.2 **Statics. Graphical statics.**

.21 Force and its Measure.
.22 Composition of Forces and Motions.
.23 Moments.
.24 Parallel Forces. Centre of Gravity.

.3 **Dynamics. Kinetics.**

.31 Rectilinear Motion.
.32 Vibration.
.33 Undulation.
.34 Rotation.
.35 Centrifugal and Centripetal Force.

.4 **Work. Friction.** See 621.89, Lubrication.

.41 Unit of Work.
.42 Diagram of Work.
.43 Laws of Friction. Modulus of Machines.
.44 Sliding Friction.
.45 Rolling Friction.

.5 **Gravity.**

.51 Law of Universal Gravitation.
.52 Laws of Falling Bodies
.53 Pendulum.
.54 Mass, Density, etc.
.55 Projectiles.
.56
.57
.58 Apparatus for Illustration.

.6 **Conservation of Energy.**

.7

.8 **Machines. Transmission of Force.**

.81 Lever and Balance.
.82 Wheel and Axle.
.83 Cord and Catenary.
.84 Pulley.
.85 Inclined Plane.
.86 Wedge.
.87 Screw.
.88

.9 **Tables. Problems. Questions.**

532 Liquids. Hydrostatics. Hydraulics.

.1 **Properties of Liquids. Pressure.**

.2 **Equilibrium of Liquids.**

.3 **Buoyant Effects. Floating Bodies.**

.4 **Specific Gravity. Hydrometer.**

.5 **Liquids in Motion.**

.51 Theoretical Flow.
.52 Orifices, Adjutages, Fluid Vein.
.53 Weirs, Overfalls.
.54 Pipes, Open Channels, Rivers.
.55 Bends, Valves, sudden enlargements and contractions.
.56 Efflux; variable pressure.
.57 Hydrometry. Velocity.
.58 Impulse and Resistance.
.59 Theory of Waves.

.6 **Capillary Attraction.**

.7 **Osmose. Absorption.**

.8 **Applications. Machines.** See 621.2, Water engines.

Except for libraries making Physics much more prominent than Useful Arts, all the "Applications" will be more useful under their proper heads in Useful Arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division.

.81 Hydraulic Press.
.82 Hydraulic Engine.
.83 Water Ram.
.84 Water Wheels.
.85 Water Blast.

.9 **Tables. Problems. Questions.**

533 Gases. Pneumatics.

.1 **Properties of Gases and Vapors.**

.2 **Laws of Compressibility.**

.3 **Atmosphere.**

.4 **Barometer.**

.5 **Air Pump.**

.6 **Aeronautics.**

.7 **Kinetic Theory of Gases.**

.8 **Applications.** See 621.6, Blowing and Pumping engines.

Preferably go in Useful Arts, see 532.8, Note.

.82 Manometer. Pressure Gauges See 621.18, Steam generation.
.83 Condensing Pump.
.84 Force Pump.
.85 Suction Pump.
.86 Diving Bell.
.87 Forge Bellows.
.88 Pneumatic Dispatch.

.9 **Tables. Problems. Questions.**

534 Sound. Acoustics.

.1 **Theory. Undulations.**

.2 **Propagation of Sound. Velocity. Diffraction.**

.3 **Musical Sound. Tuning Forks.** See also 781.1, Theory of Music.

.4 **Analysis of Sounds. Resonators.**

.5 **Superposition of Vibrations.**

.6 **Graphical Representations.**

.7 **Physiological. Ear and Larynx.** See also 611.85, Anatomy; 612.85, Physiology; 612.78, Voice; 617.8, Surgery; 362.1 and .4, Hospitals; 152.2, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81

.82

.83 Signals in Navigation. See also 654.9, Communication.

.84 Applications to Architecture.

.85 Musical Instruments. See also 780, Music.

.86 Phonograph.

.9 **Tables. Problems. Questions.**

535 Light. Optics.

.1 **Theory.**

.2 **Propagation. Velocity. Measurement of Light.**

.3 **Reflection. Refraction. Absorption.** See also 522.92, Astronomy.

.4 **Dispersion. Diffraction. Interference.**

.5 **Polarization. Polariscope. Double Refraction.**

.6 **Color.**

.7 **Physiological. Eye.** See also 611.84, Anatomy; 612.84, Physiology; 617.7, Surgery; 362.1 and .4, Hospitals; 152.1, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81 Lenses.

.82 Microscopes and Magnifiers. See also 578, Microscopy.

.83 Telescopes. See also 522.2, Astronomy.

.84 Spectroscopes and Spectrum Analysis. See also 544.6, Chemistry; 522.67, Astronomy; 523.37, Moon; 523.57, Meteors, etc.

.85 Photography. See also 770.

.86 Other Applications of Lenses.

.87 Mirrors and Reflecting Instruments.

.88 Lighthouses. See also 627.9, Harbor Engineering; 656, Commerce.

.89

.9 **Tables. Problems. Questions.**

536 Heat.

.1 **Theory. Nature.**

.2 **Communication.**

.3 **Action of Bodies on Heat.**

.31 Reflection.

.32 Refraction.

.33 Radiation.

.34 Absorption.

.35 Diathermancy.

.4 **Effects. Action of Heat on Bodies.**

.41 Expansion.

.42 Liquefaction.

.43 Solidification.

.44 Vaporization and Condensation.

.45 Incandescence.

.46 Combustion. Flame.

.5 **Temperature.** See also 551.52, Meteorology; 613.18, Hygiene.

.51 Thermometry.

.52 Pyrometry.

.53 Electric Methods of Measuring.

.6 **Calorimetry.**

.7 **Thermodynamics. Mechanical Equivalent.**

.8 **Applications.** Preferably go in Useful Arts. See 532.8, Note.

.81 Steam Engines. See 621.1, Engineering.

.82 Gas Engines. See 621.43, Engineering.

.83 Heating. See 697, 621.19, 628.8, 644.

.84 Ventilating. See 697, 622.4, 628.8.

.9 **Tables. Problems. Questions.**

537 Electricity.

.1 **Theory. Nature.**

.2 **Statical.**

.21 Quantity, Potential.

.22 Conduction, Distribution

.23 Machines.

.24 Condensers.

.25 Electrometers.

.3

.4 **Atmospheric. Lightning Rods.**

.5 **Dynamical.**

.51 Theory of Coils. Constants.

.52 Induction Spark.

.53 Induction Spark in rarified gases

537.6 Electro Dynamics.
.7 Electrical Measurements.
.8 Applications. See 621.3. Preferably go in Useful Arts. See 532.8, Note.
.81 Telegraph. See 654.
.82 Telephone. Microphone.
.83 Dynamos. Electric Lighting.
.84 Transmission of Power. Storage.
.85 Electro-Metallurgy.
.86 Galvanometers. Batteries. Coils.
.87 Medicine. See also 615.84.
.88 Electric Signals.
.9 Tables. Problems. Questions.

538 Magnetism.

For "Animal Magnetism," Mesmerism, etc., see 134.

.1 Theory. Properties of Magnets. Lines of Force.
.2 Communication. Induction. Touch.
.3 Electro-Magnetism.
.4 Diamagnetism.
.5
.6
.7 Terrestrial Magnetism.
.8 Applied. Magnetic Machines.
.9 Tables. Problems. Questions.

539 Molecular Physics.

.1 Theory. Molecular Structure. Vortex Rings.
.2 Properties of Solids.
.3 Elasticity. Torsion.
.4 Strength of Materials.
.5 Permanent Displacement of Molecules.
.51 Malleability.
.52 Ductility.
.53 Hardness.
.54 Tempering.
.6 Intermolecular Forces.
.7
.8
.9 Tables. Problems. Questions.

540 Chemistry.

.1, Theories, Alchemy, Phlogiston; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching; .8, Collective Works; .9, History.

541 Theoretical Chemistry.

.1 Thermo Chemistry.
.2 Atoms. Molecules. Atomic Weights. Equivalence.
.3 Chemical Affinity. Combustion.
.4 Salts. Acids. Bases.
.5 Types.
.6 Compound Radicles.
.7 Allotropy. Isomerism.
.8 Solubility. Water of Crystallization.
.9 Classification. Nomenclature. Notation. Formulæ. Stoichiometry. Tables.

542 Practical and Experimental Chemistry.

.1 Laboratory.
.2 Apparatus and Manipulation.
.3 Weighing and Measuring. Specific Gravity.
.4 Heating. Baths. Distillation.
.5 Blowpiping. See 544.3, 549.1.
.6 Solution. Precipitation.
.7 Gas Manipulation. Eudiometer. See 545.7.
.8 Electric and Galvanic Manipulation. See 537.85.
.9 Other Operations.

543 Analysis.

Divided by material analyzed. See also 614.3, Adulterations.

.1 Food and Drink. See also 613.2, Hygiene; 612.39, Nutrition.
.2 Milk.
.3 Water. See also 613.3, Beverages.
.4 Drugs and Medicines.
.5 Poisons.
.6 Rock Analysis.
.7 Special Inorganic Substances. See also 614.771, Analysis of soils.
.8 Special Vegetable Substances.
.9 Special Animal Substances.

544 Qualitative Analysis.

.1 **Wet Method.**
.2 **Dry Method.** See 669.9, Assaying.
.3 **Blowpiping.** See 542.5, 549.1, Mineralogy.
.4
.5 **Dialysis.**
.6 **Spectrum Analysis.** See 535.84.
.7 **Polarization.** See 535.5.
.8
.9

545 Quantitative Analysis.

.1 **Gravimetric.**
.2 **Wet Method.**
.3 **Electrolysis.** See 537.85.
.4 **Dry Method.**
For Assaying see 669.9.
.5 **Volumetric.**
.6 **Solutions.**
.7 **Gases. Eudiometry.** See 542.7.
.8 **Colorimetric.**
.9 Synthesis.

546 Inorganic Chemistry.

.1 **Non-Metallic Elements.**

.11 Hydrogen.
.12 **Halogen Group.**
.13 Chlorine.
.14 Bromine.
.15 Iodine.
.16 Fluorine.
.17 **Nitrogen Group.** Nitrogen.
.18 Phosphorus.
.19 Arsenic.
.2 **Oxygen Group.**
.21 Oxygen.
.22 Sulphur.
.23 Selenium.
.24 Tellurium.
.25 **Carbon Group.**
.26 Carbon.
.27 Boron.
.28 Silicon.
.29

546.3 **Metals.**

.31 **Alkali Group.**
.32 Potassium.
.33 Sodium.
.34 Lithium.
.35 Rubidium.
.36 Caesium.
.37
.38
.39
.4 **Alkaline Earths.**
.41 Calcium.
.42 Strontium.
.43 Barium.
.44 **Magnesium Group.**
.45 Beryllium.
.46 Magnesium.
.47 Zinc.
.48 Cadmium.
.49
.5 **Lead Group.**
.51 Lead.
.52 Thallium.
.55 **Silver Group**
.56 Copper.
.57 Silver.
.58 Mercury.
.59
.6 **Cerium Group.**
.61 Yttrium.
.62 Cerium.
.63 Lanthanum.
.64 Didymium.
.65 Erbium.
.66 Aluminium.
.67 Indium.
.68 Gallium.
.69 Scandium.
.7 **Iron Group.**
.71 Manganese.
72 Iron.
.73 Cobalt.
.74 Nickel.
.75 **Chromium Group.**
.76 Chromium.
.77 Molybdenum.
.78 Tungsten
.79 Uranium.

546 8 **Tin Group.**
.81 Tin.
.82 Titanium.
.83 Zirconium.
84 Thorium.
.85 **Vanadium Group.** Vanadium.
.86 Antimony.
.87 Bismuth.
.88 Tantalum.
.89 Niobium.
.9 **Platinum Group.**
.91 Gold.
.92 Platinum.
.93 Iridium.
.94 Osmium.
.95 **Ruthenium Group.**
.96 Ruthenium.
.97 Rhodium.
.98 Palladium.
.99

547 Organic Chemistry.

.1 **Cyanogen and its Compounds.**
.2 **Hydrocarbons. Fatty Series.**
.21 Paraffins.
.22 Olefines.
.23 Acetylenes.
.24 Valylene. Dipropargyl, etc.
.25 **Aromatic Series.**
.26 Benzenes.
.27 Diphenyl Group.
.28 Naphthalene. Anthracene. Phenanthrene.
.29 Higher Series.
The seven heads 547.3 to 547.9 are sub-divided like 547.2.
.3 **Alcohols. Phenols.**
.4 **Ethers. Simple. Compound. Haloid.**
.5 **Aldehydes.**
.6 **Ketones. Quinones.**
.7 **Acids. Acid Halides. Acid Anhydrides. Sulpho-acids.**
.8 **Nitro-derivatives. Amines. Compound Ammoniums. Amids. Amic Acids. Azo-bodies. Azoxy-bodies. Hydrazo-bodies. Diazo-bodies.**
.9 **Compounds with Metals.**

548 Crystallography.

.1 **Systems of Crystallization.**
.2 **Twin Crystals. Crystalline Aggregations.**
.3 **Cleavage. Isomorphism. Polymorphism.**
.4 **Irregularities. Internal Imperfections.**
.5 **Formation and Growth of Crystals.**
.6 **Pseudomorphs.**
.7 **Mathematical. Measurement of Angles.**
.8 **Physical.**
.9 **Optical.**

549 Mineralogy.

.01, Philosophy, Classification; .02, Compends; .03, Dictionaries; .04, Essays, Papers, etc.; .05, Periodicals; .06, Societies; .07, Study and Teaching, Museums; .08, Collective Works; .09, History.

.1 **Determinative. Blowpiping.** See also 542.5; 544.3.
.2 **Native Elements.**
.3 **Sulphides, Tellurides, Selenides, Arsenides, Antimonides, Bismuthides.**
.4 **Compounds of Chlorine, Bromine, Iodine, and Fluorine.**
.5 **Oxygen Compounds. Oxids.**
.6 **Silicates.**
.61 Anhydrous.
.65 Hydrous.
.7 **Other Ternary Oxygen Compounds.**
.71 Tantalates. Columbates.
.72 Phosphates. Arsenates. Vanadates. Antimonates. **Nitrates.**
.73 Borates.
.74 Tungstates. Molybdates. Chromates.
.75 Anhydrous Sulphates.
.76 Hydrous Sulphates.
.77 Tellurates.
.78 Carbonates.
.79 Oxalates.
.8 **Hydrocarbons.**
.9 **Geographical Distribution.**

550 Geology.

550.1, Philosophy, Theories, Geological Time; .2, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

551 Physical and Dynamical Geology.

Including Physical Geography. For Cosmical Geography, see 523.

.1 Structure of Earth as a Whole.

.11 Interior of Earth.
.12 Internal Heat.
.13 Earth's Crust.
.14 Conductivity of Rocks.

.2 Seismology.

.21 Volcanoes.
.22 Earthquakes.
.23 Hot Springs, Geysers.
.24 Oscillations of the Earth's Crust.

.3 Erosion and Deposition.

.31 Glaciers and Glacial Phenomena.
.32 Moraines.
.33 Transported Materials, Till.
.34 Icebergs.
.35 Aqueous Erosion.
.36 Coast Changes.
.37 Aerial Erosion.

.4 Surface Features of the Earth.

.41 Continents.
.42 Islands.
.43 Mountains. Valleys. Orology.
.44 Caves.
.45 Plains.
.46 Oceans.
.47 Ocean Currents.
.48 Rivers. Lakes.
.49 Springs. Wells. Ground water.

Division of Oceans for use under .46 and .47.

1, Atlantic. North Sea. Baltic.
2, Mediterranean. Black Sea.
3, Gulf of Mexico. Caribbean.
4, Southern Atlantic.
5, Pacific.
6, Eastern Pacific or American Coast.
7, Indian. Bay of Bengal. Red Sea.
8, Arctic.
9, Antarctic.

.5 Meteorology.

.51 Atmospheric Currents. Winds.
.52 Thermometry, Heat. See also 536.5, Temperature; 613.18, Hygiene.
.53 Hypsometry. See 526.36–8 for Methods.
.54 Barometry, Pressure.
.55 Storms.
.56 Climate.
.57 Moisture. Rainfall. Flow of Streams. Floods.
.58 Prairies, Forests, and Deserts.

.6 Metamorphism.

.7 Stratigraphical Geology.

.71 Archæan.
.72 Cambrian.
.73 Silurian. .731, Lower Silurian; .732, Upper Silurian.
.74 Devonian. Old red sandstone.
.75 Carboniferous.
.76 Triassic and Jurassic. Lias. Oolite.
.77 Cretaceous.
.78 Tertiary. .781, Eocene. .782, Miocene. .783, Pliocene.
.79 Quaternary. Postpliocene. Glacial. .791, Recent.

551.8 Structural Geology.

.81 Stratification.
.82 Curvature and Contortion.
.83 Ripple Marks and Sun Cracks.
.84 Joints. Cleavage. Polarity in Rocks.
.85 Dip. Outcrop. Strike.
.86 Anticlinal. Synclinal.
.87 Faults and Folds. Dislocations.
.88 Veins. Dykes. Necks. Bosses.
.89

.9 Agents of Geological Work.

.91 Frost.
.92 Water.
.93 Atmosphere.
.94 Chemical Changes. Heat.
.95 Animals.
.96 Coral Reefs.
.97 Plants.
.98 Segregation and Concretion.
.99 Other Agents.

552 Lithology, Petrography, Petrology.

.1 Igneous Rocks.

.2 Volcanic Rocks.

.21 Lavas. Scoria.
.22 Volcanic Ashes. Volcanic Tufa. Tuff.
.23 Obsidian. Pumice. Pitchstone.
.24 Trachyte.
.25 Rhyolite.
.26 Andesite. Dacite. Phonolite.
.27 Felsites.
.28 Basalt.
.29 Other Volcanic Rocks.

.3 Plutonic Rocks.

.31 Porphyry. Porphyrite.
.32 Syenite.
.33 Granite.
.34 Diabase and Gabbro.
.35 Dolerite.
.36 Diorite.
.37 Norite.
.38 Peridotite.
.39 Other Plutonic Rocks.

.4 Metamorphic Rocks.

.41 Granites and Syenites.
.42 Gneiss.
.43 Schists.
.44 Slates. Argillite. Phyllite.
.45 Quartzite. Novaculite. Itacolumite.
.46 Marble. Crystalline limestone.
.47 Serpentine.
.48 Chrysolitic Rocks.
.49 Other Metamorphic Rocks.

552.5 **Sedimentary Rocks.**

- .51 Sandstone. Conglomerate. Sand. Gravel.
- .52 Shale. Clay Silt.
- .53 Gypsum. Salt.
- .54 Limestone. Marl. Ooze.
- .55 Dolomite.
- .56 Oölite.
- .57 Infusorial or Diatomaceous Earth.
- .58 Glauconite. Greensand.
- .59 Other Sedimentary Rocks.

.6 **Meteorites.**

.7 **Decay of Rocks.**

.8 **Microscopical Petrography.**

- .81 Determination of Rock Minerals.
- .82 Rock Structure.

553 Economic Geology. See also 622.1, Mining engineering.

.1 **Ore Deposits.**

- .11 Formation and Structure.
- .12 Classification.
- .13 Superficial. Placers.
- .14 Stratified. Beds, etc.
- .15 Unstratified.
- .16 Disseminated through eruptive rocks.
- .17 Stockwerks. Fahlbands. Contacts.
- .18 Chambers and Pockets. Impregnations.
- .19 Mineral Veins.

.2 **Carbon Series.**

- .21 Peat.
- .22 Lignite and Jet.
- .23 Cannel Coal. Bituminous Shale.
- .24 Bituminous and Semi-Bituminous Coals.
- .25 Anthracite and Graphitic Anthracite.
- .26 Graphite. Plumbago.
- .27 Asphalt and Asphaltic Coals. Ozocerite.
- .28 Petroleum. Natural Gas.
- .29 Fossil Gums and Resins.

[While the history of all the other products goes here, the history of the metals is more useful in 669, Metallurgy.]

.3 **Ores of Iron.**

.4 **Ores of Metals other than Iron.**

- .41 Ores of Gold.
- .42 Ores of Silver.
- .43 Ores of Copper.
- .44 Ores of Lead.
- .45 Ores of Zinc and Tin. Mercury.
- .46 Ores of Manganese and Chromium.
- .47 Ores of Antimony and Arsenic.
- .48 Ores of Nickel and Cobalt.
- .49 Other Metallic Ores.

553.5 **Building Stones.**

- .51 Marbles and Limestones.
- .52 Granites and Syenites.
- .53 Sandstones.
- .54 Slates.
- .55 Serpentines. Soapstones.
- .56 Porphyries.
- .57 Trap.
- .58 Tufa. Peperino.
- .59 Other Building Stones.

.6 **Earthy Economic Minerals.**

- .61 Fire Clays. Brick Clays. Potter's Clays.
- .62 Sands.
- .63 Rock Salt. Gypsum.
- .64 Phosphates. Apatite. Guano. See also 631.
- .65 Emery.
- .66 Heavy Spar. Sulphur.
- .67 Asbestus, etc.
- .68 Limes and Mineral Cements.
- .69 Other Earthy Economic Minerals.

.7 **Mineral Waters.**

- .71 Alkaline.
- .72 Saline.
- .73 Chalybeate, Iron-bearing.
- .74 Sulphuric.
- .75 Calcic.

Divide general works geographically like 930–999; e. g. Mineral waters of Germany, 553. 7043

See also 551.23.

.8 **Gems. Ornamental Stones.**

.9 **Other Economic Minerals.**

554 Geology of Europe. 554–559 subdivided by countries like 940–999.

555 Geology of Asia.

556 Geology of Africa.

557 Geology of North America.

558 Geology of South America.

559 Geology of Oceanica. Polar Regions.

560 Paleontology. Use form divisions as in 550 and divide .9 geographically like 930–999; e. g. Paleontology of Germany is 560.943.

561 Plants. 561 is subdivided like Botany, 580.

562 Invertebrates. 562–569 is subdivided like Zoology, 592 599.

563 Protozoa. Radiates.

564 Mollusks.

565 Articulates.

566 Vertebrates.

567 Fishes. Batrachia.

568 Reptiles. Birds.

569 Mammals.

570 Biology.

570.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

571 Prehistoric Archæology.

For Customs, see 390. For archæology of special countries, see 913.

.1 **Paleolithic, or Early Stone Age.**
- .11 Drift Remains.
- .12 Cave Men.
- .13 Remains of Animals. Shells.
- .14 Chipped Stones.
- .15 Flint Flakes. Arrow Heads. Knives, etc.
- .16 Other Stone Remains.
- .19 Other Remains.

.2 **Neolithic, or Late Stone Age.**
- .21 Stone Quarries.
- .22
- .23 Remains of Animals.
- .24 Polished Stones.
- .25 Sharpened Stones. Celts. Tools. Weapons.
- .26 Perforated Stones. Spindles. Net Sinkers. Pipes.
- .27 Hollowed Stones. Mortars. Cups. Food Vessels.
- .28 Other Stone Remains.
- .29 Other Remains.

.3 **Bronze Age.**
- .31 Ancient Copper and Tin Mining.
- .34 Bronze Remains.
- .35 Tools. Weapons, etc.
- .37 Cups. Vessels.
- .39 Other Remains.

.4 **Iron Age.**

.5 **Other Remains.**
- .51 Implements of Wood.
- .52 Implements of Bone.
- .53 Basket Work.
- .54 Textile Fabrics.
- .55 Pottery.
- .56 Glass.
- .6

.7 **Rudiments of Art. Ornaments.**
- .71 Drawings.
- .72 Paint.
- .73 Sculptures.
- .74 Beads.

.8 **Dwellings.**
- .81 Natural Caves.
- .82 Earth Houses.. Pit Dwellings. Weems.
- .83 Lake Dwellings. Crannoges.
- .84 Cliff Dwellings.
- .85 Pueblos.
- .86 Tents as Dwellings.

571.9 **Mounds and Monuments.**
- .91 Mounds and Mound Builders.
- .92 Grave Mounds.
- .93 Kitchen Middens. Shell Banks
- .94 Monoliths. Cromlechs.
- .95 Circles. Labyrinths.
- .96 Cairns.
- .97
- .98
- .99

572 Ethnology. Anthropology.

See also 136.4, Mental race characteristics.

.1 **Unity of the Human Race.**

.2 **Diversity of Races.**

.3 **Migrations of Men.**

.4 **Original Home of Man. Eden, Atlantis, etc.**

.5

.6

.7

.8 **Races divided by Language like 400.**

.9 **Races divided by Countries like 930-999.**

Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 Natural History of Man.

.1 **Man's Place in Nature.**

.2 **Origin of Man.**

.3 **Antiquity of Man.**

.4 **Influence of Climate and Surroundings.**

.5 **Color in Man.**

.6 **Anthropometry.**

.7 **Craniology.**

.8 **Dwarfs and Giants.**

.9 **Monstrosities.** See also 613.91, Congenital defects; 617.3, Deformities.

574 Homologies.

575 Evolution.

See also 213, Creation; 215, Religion and Science; 239.8, Apologetics.

.1 **Heredity.** See also 136.3, Mental; 233.3, Moral; 129.2, Origin of soul.

.2 **Variation.** See also 591.15, Physiological zoölogy.

.3 **Environment.** See also 136.2, Mental; 573.4.

.4 **Natural Selection.**

.5 **Sexual Selection.**

.6 **Development. Survival of the Fittest.**

.7 **Degeneration.**

.8 **Origin of Species.**

.9 **Origin of Sexes.** See also 591.36, Embryology.

576 Origin and Beginnings of Life.

.1 Spontaneous Generation.
.2 Protoplasm. Bioplasm.
.3 Cells.
.4 Beginnings of Motion and Sensation.
.5
.6

577 Properties of Living Matter.

.1 Chemical. Difference between Organic and Inorganic.
.2 Life. Difference between Dead and Living Matter.
.3 Difference between Vital and Physical Phenomena.
.4 Conditions of Life. Moisture. Temperature.
.5 Difference between Plants and Animals.
.6 Vital Force.
.7 Death.
.8 Sex in Nature.
.9

578 Microscopy. See also 535.82, Optics.

.1 Varieties of Microscopes.
.2 Optical Parts.
.3 Mechanical Parts.
.4 Accessory Apparatus and Management of Microscope.
.5 Illuminating Apparatus.
.6 Preparation and Mounting of Objects.
.7 Special Preparation and Study of Inorganic Material.
.8 " Botanical Material. See 581.8, Histology.
.9 " Zoological Material. 591.8, "

579 Collectors' Manuals.

.1 Preparing Skeletons.
.2 Preservatives and Hardening Fluids.
.3 Injections.
.4 Taxidermy.
.5 Mounting Specimens.
.6 Collecting.
.11, Ailuring; Bait, Light, etc. .12, Hunting; Nets, Collecting bottle, etc. .13, Killing. .14, Exchange. Purchase. .15, Rearing. .16, Transporting.
.7 Arrangement of Specimens in Museums.
.71, Cabinets. .72, Labels.
.8 Preservation of Specimens.
.81, Museum Pests. .82, Pestifuges. .83, Prevention of moisture. .84, Retention of colors.
.9

580 Botany.

580.1, Philosophy, Classification, Nomenclature; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching, Herbariums, Botanic Gardens; .8, Collective Works; .9, History.

581 Physiological and Structural Botany.

Subdivided where wished like 591.

.1 Physiology.
.2 Pathology. Teratology.
.21 Diseases.
.22 Teratology.
.23 Parasites.
.3 Embryology. Germination.
.4 Morphology. Comparative Anatomy.
.5 Habits.
.6 Economic.
.7 Organography. Descriptive Anatomy.
.8 Histology. See 578.8.
.9 Geographical.
.91 Distribution of Plants.

.93–.99 is subdivided like 930–999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 586 with a reference from 581.97, but No. Am. Phanerogamia goes with 581.97 because it so completely covers the subject.

General Works covering both Phanerogamia and Cryptogamia are put under 580, as books on Vertebrates and Invertebrates are put under 590.

In applying these numbers to Fossil Plants, 561, note that one more figure must be used than in Fossil Animals. The Zoölogy numbers are already given in the third place in Paleontology, e. g. 592 Invertebrates, 562 Fossil Invertebrates, and so on to 599 Mammals, and 569 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogams are 561.2 not 562, which is assigned to Invertebrate Zoölogy as more important. Lichens are 561.91, etc. In the same way the Fossil Flora of North America is 561.197, i. e., the first two Botany figures, 58, are changed to 561 to give the corresponding Fossil Botany number, while in Zoölogy the only change is from 59 to 56 for first two figures, except in 591, which cannot change to 561, which is assigned to Botany. The Fossil Fauna of North America must therefore go among general works under 560.97.

582 Phanerogamia. See also Trees 715.

The sub-sections below are taken from the recognized authority, Bentham and Hooker's Genera Plantarum.

583 Dicotyledonæ.

.1 Polypetalæ.
.11 Ranales.
.111 Ranunculaceæ.
.112 Dilleniaceæ.
.113 Calycanthaceæ.
.114 Magnoliaceæ.
.115 Anonaceæ.
.116 Menispermaceæ.
.117 Berberideæ.
.118 Nymphæaceæ.

583.12 **Parietales.**
.121 Sarraceniaceæ.
.122 Papaveraceæ.
.123 Cruciferæ.
.131 Capparideæ.
.133 Resedaceæ.
.134 Cistineæ.
.135 Violarieæ.
.137 Canellaceæ.
.138 Bixineæ.
.14 **Polygalineæ.**
.141 Pittosporeæ.
.142 Tremandreæ.
.143 Polygaleæ.
.145 Vochysiaceæ.
.15 **Caryophyllineæ.**
.151 Frankeniaceæ.
.152 Caryophylleæ.
.153 Sileneæ.
.154 Alsineæ.
.155 Polycarpeæ.
.156 Portulaceæ.
.158 Tamariscineæ.
.16 **Guttiferales.**
.161 Elatineæ.
.162 Hypericineæ.
.163 Guttiferæ.
.166 Ternstrœmiaceæ.
.167 Dipterocarpeæ.
.168 Chlænaceæ.
.17 **Malvales.** Malvaceæ.
.18 Sterculiaceæ.
.19 Tiliaceæ.
.21 **Geraniales.**
.211 Lineæ.
.213 Humiriaceæ.
.214 Malpighiaceæ.
.221 Zygophylleæ.
.223 Geraniaceæ.
.23 Rutaceæ.
.241 Simarubeæ.
.245 Ochnaceæ.
.247 Burseraceæ.
.251 Meliaceæ.
.255 Chaillctiaceæ.

583.26 **Olacales.**
.261 Olacineæ.
.269 Ilicineæ.
.27 **Celastrales.**
.271 Celastrineæ.
.274 Stackhousieæ
.275 Rhamneæ.
.279 Ampelideæ.
.28 **Sapindales.**
.281 Sapindaceæ.
.291 Sabiaceæ.
.292 Anacardiaceæ.
.297 **Anomola.**
.298 Coriarieæ.
.299 Moringeæ.
.3 **Rosales.**
.31 Connaraceæ.
.32 Leguminosæ.
.37 Rosaceæ.
.38 Saxifragcæ.
.39 Crassulaceæ.
.393 Droseraceæ.
.394 Hamamclideæ.
.396 Bruniaceæ.
.398 Halorageæ.
.4 **Myrtales.**
.411 Rhizophoreæ.
.414 Combretaceæ.
.42 Myrtaceæ.
.43 Melastomaceæ.
.441 Lythrarieæ.
.445 Onagraricæ.
.45 **Passiflorales.**
.451 Samydaceæ.
.453 Loaseæ.
.455 Turneraceæ.
.456 Passifloreæ.
.461 Cucurbitaceæ.
.468 Begoniaceæ.
.469 Datisceæ.
.47 **Ficoidales.**
.471 Cacteæ.
.475 Ficoidcæ.
.48 **Umbellales.**
.481 Umbelliferæ.
.491 Araliaceæ.
.497 Cornaceæ.

583.5 **Gamopetalæ.**

.51 **Rubiales.** Caprifoliaceæ.
.52 Rubiaceæ.
.53 **Asterales.**
.531 Valerianeæ.
.541 Dipsaceæ.
.546 Calycereæ.
.55 Compositæ.
.57 **Campanales.** Stylidieæ..
.58 Goodenovieæ.
.59 Campanulaceæ.
.6 **Ericales.**
.61 Vacciniaceæ.
.62 Ericaceæ.
.63 Monotropeæ.
.64 Epacrideæ.
.65 Diapensiaceæ.
.66 Lennoaceæ.
.67 **Primulales.**
.671 Plumbagineæ.
.672 Primulaceæ.
.677 Myrsineæ.
.68 **Ebenales.**
.681 Sapotaceæ.
.685 Ebenaceæ.
.686 Styraceæ.
.7 **Gentianales.**
.71 Oleaceæ.
.716 Salvadoraceæ.
.72 Apocynaceæ.
.73 Asclepiadeæ.
.74 Loganiaceæ.
.75 Gentianeæ.
.76 **Polemoniales.**
.761 Polemoniaceæ.
.764 Hydrophyllaceæ.
.77 Boragineæ.
.78 Convolvulaceæ
.79 Solanaceæ.
.8 **Personales.**
.81 Scrophularineæ.
.821 Orobanchaceæ.
.825 Lentibularieæ.
.829 Columelliaceæ.
.83 Gesneraceæ.
.84 Bignoniaceæ.
.85 Pedalineæ.
.86 Acanthaceæ.
.87 **Lamiales.**
.871 Myoporineæ.
.876 Selagineæ.
.88 Verbenaceæ.
.891 Labiatæ.
.899 **Ordo anomalus.** Plantagineæ.

583.9 **Apetalæ.**

.91 **Curvembryeæ.**
.911 Nyctagineæ.
.912 Illecebraceæ.
.913 Amarantaceæ.
.914 Chenopodiaceæ.
.915 Phytolaccaceæ.
.916 Batideæ.
.917 Polygonaceæ.
.92 **Multiovulatæ Aquaticæ.**
.921 Podostemaceæ.
.922 **Multiovulatæ Terrestres.** Nepenthaceæ
.923 Cytinaceæ.
.924 Aristolochiaceæ.
.925 **Micrembryeæ.** Piperaceæ.
.926 Chloranthaceæ.
.927 Myristiceæ.
.928 Monimiaceæ.
.93 **Daphnales.**
.931 Laurineæ.
.932 Proteaceæ.
.933 Thymelæaceæ.
.934 Penæaceæ.
.935 Elæagnaceæ.
.94 **Achlamydosporeæ.**
.941 Loranthaceæ.
.943 Santalaceæ.
.947 Balanophoreæ.
.95 **Unisexuales.**
.951 Euphorbiaceæ.
.961 Balanopseæ.
.962 Urticaceæ.
.971 Platanaceæ.
.972 Leitnerieæ.
.973 Juglandeæ.
.974 Myricaceæ.
.975 Casuarineæ.
.976 Cupuliferæ.
.98 **Anomali.**
.981 Salicineæ.
.983 Lacistemaceæ.
.984 Empetraceæ.
.987 Ceratophylleæ.

584 Monocotyledonæ.

.1 **Microspermeæ.**
.11 Hydrocharideæ.
.13 Burmanniaceæ.
.15 Orchideæ.
.2 **Epigyneæ.**
.21 Scitamineæ.
.22 Bromeliaceæ.
.23 Hæmodoraceæ.
.24 Irideæ.
.25 Amaryllideæ.
.26 Taccaceæ.
.27 Dioscoreaceæ.
.3 **Coronarieæ.**
.31 Roxburghiaceæ.
.32 Liliaceæ.
.34 Pontederiaceæ.
.35 Philydraceæ.
.36 Xyrideæ.
.37 Mayaceæ.
.38 Commelinaceæ.
.39 Rapateaceæ.
.4 **Calycineæ.**
.41 Flagellarieæ.
.45 Juncaceæ.
.5 Palmæ.
.6 **Nudifloreæ.**
.61 Pandaneæ.
.62 Cyclanthaceæ
.63 Typhaceæ.
.64 Aroideæ.
.68 Lemnaceæ.
.7 **Apocarpeæ.**
.71 Triurideæ.
.72 Alismaceæ.
.74 Naiadaceæ.
.8 **Glumaceæ.**
.81 Eriocauleæ.
.82 Centrolepideæ.
.83 Restiaceæ.
.84 Cyperaceæ.
.9 Gramineæ.

585 Gymnospermæ.

.1 **Gnetaceæ.**
.2 **Coniferæ.**
.9 **Cycadaceæ.**

586 Cryptogamia.

587 Pteridophyta.

.1 **Isoeteæ.**
.2 **Equisetæ.**
.3 **Filicinæ.**
.9 **Lycopodinæ.**

588 Bryophyta.

.1 **Sphagna.**
.2 **Musci.**
.3 **Hepaticæ.**
.4 **Characeæ.**

589 Thallophyta.

.1 **Lichenes.**
.11 **Basidiolichenes.**
.15 **Ascolichenes.**
.16 Angiocarpæ.
.17 Gymnocarpæ.
.18 Gelatinosæ.
.19 Byssaceæ.
.2 **Fungi.**
.21 **Carposporeæ.**
.22 Basidiomycetes.
.221 Gasteromycetes.
.222 Hymenomycetes.
.224 Tremellinæ.
.225 Uredineæ.
.227 Ustilagineæ.
.229 Entomophthoreæ.
.23 Ascomycetes.
.231 Tuberaceæ.
.233 Discomycetes.
.235 Pyrenomycetes.
.238 Gymnoasceæ.
.24 **Oosporeæ.**
.25 Peronosporeæ.
.26 Saprolegnieæ.
.27 **Zygosporeæ.**
.28 Zygomycetes.
.29 Myxomycetes.
.3 **Algæ.**
.4 **Carposporeæ.**
.41 Florideæ.
.47 Colcochaeteæ.
.5 **Oosporeæ.**
.6 **Zygosporeæ.**
.61 Conjugateæ.
.67 Zoosporeæ.
.7 **Protophyta.**
.8 **Chlorophyllaceæ.**
.9 **Achlorophyllaceæ.**
.91 Saccharomycetes. Yeast.
.95 Schizomycetes. Bacteria. Microbes.

See also 614.41, Origin of infectious diseases; 616.01, Germ theory of disease.

590 Zoology.

590.1, Philosophy, Classification; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Zoological Gardens, Aquaria, Museums; .8, Collective Works; .9, History.

591 Physiological Zoology.

.1 Physiology.

.11 Circulation.

.12 Respiration.

1, Nature; 2, Dermal; 3, Aquivascular; 5, Branchial; 6, Tracheal; 7, Pulmonary; 9, Exhalation of Aqueous Vapor.

.13 Nutrition.

1, Acquisition of Food; 2, Digestion of Food; 3, Assimilation of Food; 4, Growth; 5, Development; 6, Repair of Waste; 7, Production of Organic Material; 8, Conditions of Nutritive Activity; 9, Longevity, Vitality.

.14 Secretion and Excretion.

1, Mucous and Sebaceous; 2, Sericeous; 3, Digestive, salivary, gastric, pancreatic; 4, Odoriferous, sweet, etc.; 5, Poisonous, gall-formation, caprification; 591.65 6, Mammary, spermatic; 7, Lachrymal; 8, Biliary; 9, Urinary and Fecal.

.15 Variation. See also 575.2, Evolution.

1, Polymorphic; 2, Geographic; 3, Heterophagic; 4, Polygoneutic; 5, Mimetic; 6, Sexual; 7, Colorational; 8, Hybrids; 9, Monstrosities.

.16 Generation.

1, Abiogenesis; 2, Parthenogenesis, neuters; 3, Metagenesis, pædogenesis, nurses; 5, Fission and Gemmation; 6 Fecundation; 7, Hermaphrodites; 8, Vivipara; 9, Superfœtation.

.17 Histogenesis.

1, Development of Sperm-cells; 2, Development of Germ-cells, micropyle; 9, Reparation of Wounds.

.18 Nervous Functions and Sensation.

.19 Physiological chemistry.

.2 Pathology.

.3 Embryology.

.33, Development of Embryo; .34, Metamorphosis, larva, pupa, moulting; .35, Hypermetamorphosis; .36, Production of Sexes. See also 575.9, Origin of sexes.

.4 Morphology. Comparative Anatomy.

.41 Circulatory Organs.

.42 Respiratory Organs.

.43 Nutritory Organs.

.44 Secretory and Excretory Organs.

.45

.46 Generatory Organs.

.47 Motory Organs.

.48 Nervous System.

.49 Integument. Dermoskeleton. Skeleton.

.5 Habits and Behavior.

.51 Instinct. Reason.

.52 Abode. Migration.

.53 Food.

.54 Seasons. Hibernation.

.55 Sociability.

.56 Philoprogenitiveness. Breeding

.57 Means of Protection. Fascination.

.58

.59 Other Habits.

591.6 Economic.

.61 Usefulness.

.62 In Nature.

.63 As Food and Medicine for Man.

.64 In Chemistry and Manufactures.

.65 Noxiousness.

.66 Offensive Animals.

.67 Animals causing Diseases.

.68 Injuring Vegetable and Animal Products and Inorganic Substances.

.69 Injuring Living Plants and Animals. Parasites.

.7 Organography. Descriptive Anatomy.

Subdivided like 591.4, Morphology.

.8 Histology. See also 578.9, Microscopical zoölogy.

.9 Geographical Distribution of Animals.

Subdivided like 930–999, using .92 for ocean.

592 Invertebrates.

593 Protozoans. Radiates.

.1 Protozoans.

.11 Rhizopoda.

.12 Foraminifera.

.13 Heliozoa.

.14 Radiolaria. Polycystina.

.15 Infusoria.

.16 Flagellata.

.17 Ciliata.

.18

.19 Gregarinidæ.

.2 Radiates.

.3 Cœlenterata. Acalepha (old use of term, now limited to 593.73).

.4 Sponges. Porifera. Spongia.

.5 Cnidaria.

.6 Actinozoa. Polyps. Corals and Sea Anemones.

.61 Rugosa. Tetracorolla.

.62 Alcyonaria. Octocorolla.

.63 Zoantharia. Hexacorolla.

.64 Antipatharia.

.65 Actinaria.

.66 Madreporaria.

.7 Hydrozoa.

.71 Hydromedusæ.

.72 Siphonophora.

.73 Acalepha.

.74 Calycozoa.

.76 Marsupialida.

.77 Discophora. Jelly Fish.

.8 Ctenophora. Jelly Fish.

593·9 Echinodermata.
·91 Crinoidea. Sea Lilies.
·92 Asteroidea. Star Fish.
·93 Stelleridea.
·94 Ophiuridea.
·95 Echinoidea. Sea Urchins.
·96 Holothuroidea. Sea Cucumbers.
·97 Pedata.
·98 Apoda.
·99 Enteropneusta.

594 Mollusks.

.1 Lamellibranchiata. Bivalves.
.2 Scaphopoda.
·3 Gastropoda. Univalves. Snails. Slugs. See also 632, Pests.
.4 Pteropoda. Winged Shells.
·5 Cephalopoda. Squids and Cuttle Fish.
.6 Molluscoidea.
.7 Bryozoa. (Polyzoa.) Sea Mats.
.8 Brachiopoda. Lamp Shells.
.9 Tunicata. (Ascidia.) Sea Grapes.

595 Articulates.

.1 Worms. Vermes. See also 632, Pests.
.2 Arthropoda.
·3 Crustacea.
·31 Entomostraca. Cyclops, Shrimps, etc.
·32 Phyllopoda.
·33 Ostracoda.
34 Copepoda.
·35 Cirripedia. Barnacles, etc.
·36 Malacostraca. Sandbugs, Crabs, Lobsters, etc.
·37 Arthrostraca.
·38 Thoracostraca.
·39 Gigantostraca. Trilobites.
·4 Arachnida. Spiders. Scorpions. Mites. See also 632, Pests.
·5 Onychophora.
.6 Myriopoda. Centipedes, etc. See also 632, Pests.
·7 Insects. Insecta. Hexapoda. See also 632, Pests.
·71 Thysanura. Bristle-tails, spring-tails, etc.
·72 Orthoptera. Grasshoppers, etc.
·73 Pseudoneuroptera. Dragon-flies, white ants, etc.
·74 Neuroptera. Caddice flies, etc.
·75 Rhynchota. (Hemiptera.) Bugs, etc.
·76 Coleoptera. Beetles.
·77 Diptera. Flies, etc.
·78 Lepidoptera. Butterflies, Moths.
·79 Hymenoptera. Bees, Wasps, etc.

596 Vertebrates.

597 Fishes. Pisces.

.1 Pharyngobranchii. Lancelet.
.2 Marsipobranchii. Lampreys.
·3 Elasmobranchii. Sharks, Rays, etc.
.4 Ganoidei. Sturgeons, Garpikes, etc.
·5 Teleostei. True bony fishes.
.6 Batrachia. (Amphibia.)
·7 Ophiomorpha.
.8 Anura. Toads, Frogs.
.9 Urodela. Salamanders.

598 Reptiles. Birds.

.1 Reptiles.
.11 Lacertilia. Lizards.
.12 Ophidia. Snakes.
.13 Chelonia. Turtles.
.14 Crocodilia. Crocodiles.
.15 Ichthyopterygia.
.16 Sauropterygia.
.17 Anomodontia.
.18 Pterosauria.
.19 Dinosauria.
.2 Birds. Aves.
·3 Grallatores. (Waders.)
.4 Natatores. (Swimmers.)
·5 Cursores. (Runners.)
.6 Rasores. (Scratchers.)
·7 Scansores. (Climbers.)
.8 Insessores. (Perchers.)
.9 Raptores. (Birds of Prey.)

599 Mammals. Mammalia.

.1 Monotremata. Duck-billed Platypus.
.2 Marsupialia. Kangaroos, Opossums.
·3 Edentata. Rodentia. Insectivora. Sloths. Rodents. Moles.
.4 Cheiroptera. Bats.
·5 Cetacea. Sirenia. Whales, etc.
.6 Proboscidea. Hyracoidea. Elephants. Hyrax.
·7 Ungulata. Carnivora. Domestic Mammals. See also 636.
.8 Quadrumana. Apes.
.9 Bimana. Man. See also 573, Nat. hist. of man; 610, Medicine.

Useful Arts.

600 Useful Arts.

601 Philosophy. Theories, etc.

602 Compends. Outlines.

603 Dictionaries. Cyclopedias.

604 Essays. Lectures. Addresses.

605 Periodicals. Magazines. Reviews.

606 Societies. Fairs. Exhibitions.

Special exhibitions go with their topics. This is general only.

607 Education. Schools of Technology.

Divided like 940–99.

608 Patents. Inventions.

609 History of Useful Arts in General.

For its History, see each special department.

610 Medicine.

.1, Philosophy, Theories; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .71, Medical schools; .72, Medical education of women; .73, Training schools for nurses; .77, Medical museums; .8, Collections; .9, History of Medicine.

611 Anatomy. Histology.

May be subdivided by a 0, like 610, if wished. Put Dissection in 611.07. For Malformations see 617.3, Orthopædic Surgery. See also 591.4, Comparative Anatomy; 591.8, Histology.

.1 Circulatory System.

.11 Pericardium.
.12 Heart.
.13 Arteries.
.14 Veins.
.15 Capillaries.

.2 Respiratory System.

.21 Nasal Passages.
.22 Larynx.
.23 Trachea. Bronchi.
.24 Lungs.
.25 Pleura.
.26 Diaphragm and other muscles of respiration.

.3 Digestive System.

.31 Mouth. Tongue. Teeth. Salivary Glands.
.32 Pharynx. Oesophagus.
.33 Stomach.
.34 Intestine.
.35 Rectum. Anus.
.36 Liver. Gall Bladder.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.

.4 Glandular and Lymphatic System.

Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.31, Salivary Glands; 611.69, Mammary Glands.

.41 Spleen.
.42 Lymphatics.
.43 Thymus.
.44 Thyroid.
.45 Suprarenal Bodies.
.46

.6 Genito-Urinary System. Breasts.

.61 Kidneys. Ducts. Ureters.
.62 Bladder. Urethra.
.63 Testes. Spermatic Cord. Scrotum.
.64 Penis.
.65 Ovaries. Fallopian Tubes.
.66 Uterus.
.67 Vagina. Vulva.
.68
.69 Mammary Glands.

611.7 **Motor and Integumentary System.**

.71 Bones. Skeleton.
.72 Articulations. Joints. Cartilages.
.73 Muscles.
.74 Tendons. Fasciæ.
.75 Bursæ. Sheaths of Tendons.
.76 Connective Tissue.
.77 Skin.
.78 Hair. Nails.

.8 **Nervous System. Sensory Apparatus.**

.81 Brain and its Meninges.
.82 Spinal Cord and its Meninges.
.83 Nerves.
.84 Sight.
.85 Hearing.
.86 Smell.
.87 Taste.
.88 Touch.
.89 Ganglia.

.9 **Regional Anatomy.**

.91 Head.
.92 Face.
.93 Neck.
.94 Chest.
.95 Abdomen.
.96 Pelvis.
.97 Upper Extremities.
.98 Lower Extremities.

612 Physiology.

May be subdivided by a 0, like 610, if wished. For Vital Phenomena in general, see 577, Properties of living matter. Use 612.01 for general works on Physiological Chemistry. See also 591.1, Physiology of Animals.

.1 **Blood and Circulation.**

.11 Blood and its Physical Properties. See also 612.23, Changes in Blood.

.1, Red Globules; .2, Leucocytes; .3, Arterial Blood; .4, Venous Blood; .5, Coagulation; .6, Quantity; .7, Color; .8, Other Properties; .9, Blood-making. Sanguification.

.12 Chemical Composition.
.13 Hydraulic Principles of Circulation.
.14 Blood Pressure.
.15 Rapidity of Flow.
.16 Pulse Wave.
.17
.18
.19 Functions of Special Organs.

.2 **Respiration.**

.21 Respiratory Movements.
.22 Gas Exchange.
.23 Changes in Blood. See also 612.11, Blood.
.24 Capacity of the Lungs.
.25 Exhalation of Vapor of Water.
.26 Change of excreted Organic Particles.
.27
.28
.29 Functions of Special Organs.

612.3 **Digestion. Absorption. Nutrition.**

.31 Mouth. Teeth. Salivary Glands.
.32 Stomach. Vomiting, see 616.33.
.33 Intestine.
.34 Pancreas. Pancreatic Fluid.
.35 Liver.
.36 Defecation.
.37
.38 Absorption.

.1, Imbibition; .2, Osmosis; .3, Diffusion; .4, Skin, see also 612.79 and 615.67; .5, Lungs, see also 612.29 and 615.64; .6, Alimentary Canal, see also 612.3; .7, Other Mucous Membranes, see also 615.66; .8, Parenchymatous Absorption.

.39 Nutrition.

.1, Hunger and Thirst; .2, Nutriments; .3, Stimulants; .4, Growth; .5, Repair; .6, Carbohydrates; .7, Fats; .8, Albuminoids. For Diet, see 613.2.

.4 **Secretion. Excretion.**

Divided like 611.4. Add 612.46, Kidneys, Bladder, Urine, etc.; 612.49, for Vicarious Secretion. Put secretions of special systems with those systems; e. g. of the Liver, 612.35.

.5 **Animal Heat.**

.51 Sources of Heat.
.52 Loss of Heat.
.53 Regulation of Heat.
.54 Conditions Influencing Temperature.
.55 Variations of Heat.
.56 Temperature of Body.
.57 Fever. See 616.92, Diseases.
.58

.6 **Reproduction. Development.**

.61 Male Functions of Generation.
.62 Female Functions of Generation.
.63 Impregnation.
.64 Development of Embryo.

For abnormal development of embryo, see 617.3, Deformities.

.65 Growth after Birth.
.66 Period of full Development.

1, Puberty; 2, Menstruation; 3, Fecundity; 4, Lactation.

.67 Period of Decline. Death. See also 577.7, Biology.
.68 Longevity. See 368.3, Life Insurance; 519.5, Probabilities; 614.12, Death Rates.
.69

.7 **Function of Motor and Vocal Apparatus and Skin.**

.71 Protoplasm. See 576.2, Origin of Life.
.72 Cilia.
.73 Smooth Muscles.
.74 Striped Muscles.

For structure and chemical composition of muscles, see 611.73, Anatomy.
1, Contraction; 2, Rigor; 3, Electrical Phenomena; 4, Chemical Changes; 5, Heat Production. See also 612.51, Animal Heat.

.75 Bones. Joints.
.76 Locomotion.
.77
.78 Voice and Speech. See 784.9, Vocal Hygiene; 808.5, Elocution; 534.7, Sound.
.79 Skin. Hair. Nails.

612.8 **Nervous Functions.**

.81 Nerve Fibres.
.82 Central Nervous System. Brain.
.83 Spinal Cord.
.84 Sight. See also 152.1, Mental faculties; 535.7, Optics.
.85 Hearing. See also 152.2, Mental faculties; 534.7, Acoustics.
.86 Smell. Olfaction. See also 152.3.
.87 Taste. Gustation. See also 152.4.
.88 Touch. See also 152.5.
.1, Space; .2, Temperature; .3, Pressure; .4, Pain; .5, Muscular Sense; see also 152.6.
.89 Sympathetic Nervous System. Ganglia.

613 Personal Hygiene.

Care of Health; Prophylaxis; Individual Health; Laws of Health.
.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930–999.

.1 **Air and Light.**

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.
.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.
.13 Seasons. Time of Day.
.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773, and 614.772.
.15 Purification of Air.
.16 Special Influences. Ozone, Electricity, etc.
.17 Quantity of Air Necessary.
.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.
.19 Sunlight.

.2 **Food. Dietetics.**

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.
Including food for special classes of people; literary men, soldiers, etc.
.22 Food for Infants.
.23 Food for the Sick.
Including means for giving nutrition, baths, enemeta, forced alimentation, etc.
.24 Fasting. Famine. Starvation.
.25 Excess of Food.
.26 Vegetable Food.
.27 Fruits.
.28 Animal Food. Meats.
.29 Fish, Oysters, etc.

.3 **Beverages.**

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.
.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.
.33 Microscopical Analysis. For Chemical Analysis, see 543.3.
.34 Biological Analysis.
.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.
.36 Cold Drinks.
.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.
.38 Mineral Waters, Carbonated Waters, etc. See also 614.349, Adulterations; 615.79, Therapeutics.
.39 Other Beverages.

613.4 **Cleanliness of Body. Clothing.**

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet.
For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.
.42 Warm.
.43 Cold. For Swimming, see 796.
.44 Douche or Shower.
.45 Sea. Salt.
.46 Hot Air. Turkish. Russian. Roman, etc.
.47 Public.
.48 Clothing.
1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, light boots, support from hips, etc.
.49

.5 **Human Habitation and Resort.**

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.
These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

.51 Homes.
.52 Hotels.
.53 Tenements.
.54 Schools. Colleges. See School hygiene, 371.7.
.55 Churches, Theaters, Halls, etc.
.56 Hospitals. Asylums.
.57 Prisons. Reformatories.
.58
.59 House Furnishing.
1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 **Hygiene of Employment.**

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.
Occupations made Injurious.
.62 By Inhalation of Vapors and Gases.
Bleachers, match-makers, lard refiners, etc.
.63 By Inhalation of Dust or by Absorption.
Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.
.64 By Elevated, Low, or Variable Temperature.
Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.
.65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.
Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.
.66 By Accidents. See Public health, 614.8, Protection from accidents.
Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.
.67 Military Hygiene. Barracks, Camp and Tent Life.
.68 Naval Hygiene. Ship Life.
.69 Hygiene of Travel and Exploration.

613.7 Hygiene of Recreation and Sleep.

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body.
For Curative gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games.

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, are grouped here by attraction.

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 Hygiene of Nervous System.
Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance.

.81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.

.82 Opium and Hasheesh. See also 178.8.

.83 Chloral and Caffeine. See also 178.8.

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177.

.88 Luxury. Privation.

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.

.9 Hygiene of Offspring. Heredity.
See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.

.93 Transmitted Disease.
See also special diseases in 616.

.94 Stirpiculture.

614 Public Health.

Public Hygiene. Public Sanitation. State Medicine. Preventive Medicine. See also 628, Sanitary Engineering; 352.4, Boards of Health.

.02, Compends; .03, Dictionaries, Cyclopædias; .04, Essays; .05, Periodicals; .06, Societies, Conventions; .07, Education; .08, Sanitary Appliances, Exhibitions; .09, History, Description, Legislation, Reports, etc., divided like 930–999, e.g. 614.0942, Public Health in England.

.1 Registration and Vital Statistics. See 312, Population.

.11 Births and Birth-rates.

.12 Deaths and Death-rates.
Divided geographically like 930–999, e.g. Death-rate in England, 614.1242.

.13 Mortality at Different Ages.
For Life Insurance, Life Tables, Biometry, etc., see Life Insurance, 368.3, and Life Contingencies, 519.5; Longevity, 612.68.

.131 Still-births.

.132 Infant Mortality.

.133 Mortality in Childhood.

.134 " " Adult Life.

.135 " " Old Age.

.14 Mortality of Sexes, Races, etc.

.141 " " the Sexes.

.142 " " Males.

.143 " " Females.

.144 " " Races, Colored, White, Indian, etc.

.145 " " City and Country.

.15 " " Different Occupations. See also 613.6.

.16 " from Special Diseases. Causes of Death.

.17 Marriage.

.18 Divorce. See also 173.1, Family Ethics.

.2 State Control of Medicine.

.21 Medical Education and Degrees. See 610.7; 378.2, Academic Degrees.

.22 Anatomy and Vivisection Laws. See 179.4, Ethics.

.23 Expert Testimony and other Medico-Legal Relations. See 340.6, Medical Jurisprudence.

.24 Registration of Physicians, Dentists, Pharmacists, etc. License to Practice.

.25 Regulation of Medical Practice. See 174.2, Professional Ethics, Physicians.

.26 Quackery and Malpractice.

.27 Nostrums and Patent Medicines. See also 614.353, Adulterations.

.28 Sale of Poisons. See 615.9, Toxicology.

.29 Medical Police.

.3 Adulterations. Inspection of Articles Liable to Affect Public Health. Public analysts. State laboratories. For chemical analysis see 543.

.31 Inspection of Food. For chemical analysis see 543.1; Hygiene, 613.2.

.311 Sugars. Syrups. Confectionery.

.312 Cereals. Starches. Bread.

.313 Lards. Fats. Oils. See 614.325–6, Butter, Oleomargarine.

.314 Spices. Condiments.

.315 Yeast. Baking Powders. Cream of Tartar.

.316 Vegetables. Fruits. (Fresh.)

.317 Meats. Fish. (Fresh.)

.318 Canned or Preserved Food. Vegetables. Fruits.

.319 Meat. Fish. Oysters. (Preserved.)

.32 Milk and Milk Products.

.321 Milk Analysis. See also 543.2, chemistry.

.322 Milk of Known Purity.

.323 Milk as Sold to Consumer.

.324 Cream. Skimmed Milk. Condensed Milk. Buttermilk. Kumiss.

614.325 Butter and its Imitations.
.326 Oleomargarine.
.327 Cheese and its Imitations.
.33 Other Articles of Food.
.34 Inspection of Beverages. For chemical analysis see 543.1; Hygiene, 613.3.
.341 Fermented.
.342 Wine.
.343 Brewed.
.344 Beer.
.345 Distilled.
.346 Fruit Drinks. Lemonade, Shrub, etc.
.347 Tea. Coffee. Chocolate. Cocoa. See also 613.37, Hygiene.
.348 Mineral Waters. Soda Water. See also 613.38, Hygiene; 615.79, Therapeutics.
.349 Mixed Drinks.
.35 Inspection of Drugs. For chemical analysis see 543.4.
.351 Officinal or Pharmacopœial Drugs.
.352 Non-officinal Drugs.
.353 Empirical or Patent Medicines. See also 614.27, State control.
.354 Cosmetics.
.355 Poisonous Cosmetics.
.36 Inspection of Tobacco.
.37 Inspection of Pigments, Wall and other Papers, Textile Fabrics, Toys, etc.

.4 Contagious and Infectious Diseases. General.

.41 Causes and Origin. See 589.95, Bacteria, Microbes; 616.01, Germ theory of disease.
.42 Geographical Distribution. Climatology.
.43 Modes of Propagation and Communication.
.44 Prevention and Restriction. See Ambulances, 614.882.
.45 Isolation, Lazarettos, etc.
.46 Quarantine, etc.
.461 Maritime Quarantine.
.462 Inland "
.463 Control of Rags, etc.
.47 Protective Inoculation.
.471 Against Small-pox. See also 616.912, Pathology.
.472 Variolation.
.473 Vaccination.
.1, Bovine Vaccination; .2, Humanized Vaccination; .3, Vaccinal Syphilis; .4, Re-vaccination; .5, Vaccinisation; .6, Re-vaccinisation; .7, Retro-vaccination; .8, Compulsory Vaccination; .9, Optional Vaccination.
.474 Anti-vaccination.
.475 Against Cholera. See also 616.932, Pathology.
.476 " Yellow Fever. See also 616.928, Pathology.
.477 " Hydrophobia. Pasteurism. See also 616.953, Pathology.
.48 Disinfection. Houses, Clothing, Rags, Workshops, Cars, Ships, Camps, Air, Soil, Persons, Sewers, Vaults, Excreta. Dead, see Embalming, etc., 614.64.
.481 Fumigating and other Apparatus. 1, Stationary; 2, Portable.
.482 Disinfectants. Antiseptics. Deodorizers.
Treated with reference to Public Health. See also Materia Medica 615.777 & 615.778.
.483 Heat.
.484 Chemical Disinfectants.
.485 Carbolic.
.486 Salicylic.
.487 Chlorides.
.488 Copperas.
.489
.49 Epidemics. Plagues.

614.5 Contagious and Infectious Diseases. Special.

These heads are for Public Health discussions only. For treatment, etc., see Pathology, 616.

.51 Filth Diseases.
.511 Typhoid or Enteric Fever.
.512 Diphtheria.
.513 Diarrhœal Diseases.
.514 Cholera.
.515 Cholera-infantum.
.516 Dysentery.
.517 Diarrhœa.
.52 Exanthemata.
.521 Small-pox.
.522 Scarlet Fever.
.523 Measles.
.524 Rötheln.
.525 Chicken-pox.
.526 Typhus.
.53 Malarial Fevers.
.531 Intermittent Fever.
.532 Remittent Fever.
.54 Other Contagious and Infectious Diseases.
.541 Yellow Fever.
.542 Phthisis.
.543 Whooping-cough.
.544 Mumps.
.545 Puerperal Fever. See also 618.
.546 Leprosy.
.547 Syphilis.
.548 Gonorrhea.
.55 Parasitic Diseases.
.56 Diseases Communicated from Lower Animals.
.561 Anthrax. Charbon.
.562 Trichiniasis.
.563 Hydrophobia.
.564 Glanders.

.6 Disposal of the Dead.

See 393, Customs. Treatment of the dead.

.61 Burial.
.611 Earth-burial.
.612 Tomb-burial.
.613 Burials in Churches. Intra-mural.
.614 Use of Perishable Coffins.
.62 Cremation. Crematories.
.63 Transportation of the Dead.
.64 Embalming and Disinfection of the Dead. Use of Ice.
See 614.48, Disinfection; 615.777, Disinfectants.
.65 Effect of Cemeteries on Health.
.651 By Water Pollution.
.652 " Air "

614.7 **Hygiene of the Air and Ground. Nuisances.**
See 613.1, Air, Hygiene; 613.6, Hygiene of employment; 628.5, Industrial sanitation.
.71 Air Pollution by Dust and Smoke.
.72 Air Pollution by Noxious Gases, Mineral Trades, Chemical Works.
.721 Carbon Compounds.
.722 Carbonic Oxide, Carbonic Acid, Carburetted Hydrogen.
.723 Illuminating Gases. Gas Works.
.724 Mineral Oil Refining.
.725 Sulphur Compounds.
.726 Chlorine "
.727 Nitrogen "
.728 Phosphorus "
.729 Other.
.73 Air Pollution by Vegetable Trades.
.731 Brewing.
.732 Distilling.
.733 Vinegar Making.
.734 Sugar Refining.
.735 Charcoal Burning.
.736 Varnish Making.
.74 Air Pollution by Animal Trades.
.741 Slaughter Houses. Abattoirs. Fish.
.742 Rendering Works. Bone-boiling. Tripe and Gut Cleaning.
.743 Pork Packing. Lard Refining.
.744 Soap Making.
.745 Tanning.
.746 Glue Making.
.747 Lampblack.
.748 Commercial Fertilizers.
.75 Storage and Handling of Noxious and Offensive Materials.
.76 Other Air Pollutions. See 628, Sanitary engineering.
.761 Stables. Stable Manure.
.762 Hog Styes.
.763 Offal. Dead and Diseased Animals and Fish.
.764 Vaults. Cess-pools. Water Closets, Privies, Urinals, Night-soil.
.765 Sewers and Sewer Outlets. Sewer Gas.
.77 Conditions of Soil as Affecting Health. Topography. Sanitary Surveys.
.771 Analysis of Soils. See 543.7, Chemistry.
.772 Soil Moisture. Hygiene of Natural Water Courses and of Marshes.
See 613.14, Hygiene.
.773 Ground Atmosphere. See 613.14, Hygiene.
.774 Solid Constituents of Soil.
.775 Malarious Soils. See 613.14, Hygiene.
.776 Recovery of Soils from Pollution.
.78 Air and Ground in Towns.
.781 Laying Out of Towns and Streets.
.782 Subways and Elevated Ways. See 628.47, Sanitation of Towns.
.783 Parks. Air Spaces.
.784 Hight of Buildings and Proportion of Occupiable Area.
See 614.85, Building laws.

614.8 **Protection of Human Life from Accidents, Casualties, etc.** See 613.66 Hygiene of employment.
.81 Drowning.
.811 Rescue of the Drowning.
.812 Resuscitation of the Drowned. First Help.
.82 Suffocation.
By gases, in vaults, mines, etc.; see 622.8, Mining dangers. By illuminating gases.
.83 Explosions.
.831 Manufacture and Storage of Explosives and Combustibles. See 662, Chemical technology.
.832 Gunpowder.
.833 Dynamite, etc.
.834 Inspection of Kerosene, etc.
.835 " of Illuminating Gas.
.836 " of Electric Apparatus.
.837 " of Steam Boilers.
.84 Fires.
.841 Fire Prevention.
.842 " Detection.
.843 " Extinction. See 352.3, Fire Department.
.844 Automatic.
.845 Chemical Extinguishers.
.846 Fire Engines. Water Towers. See 621.68, Pumping engines.
.847 " Escapes and Other Apparatus.
.848 " Exits, etc., from Public Buildings.
.85 Building Laws. Inspection of Buildings. See 614.784, Hight of Buildings.
.86 Protection of Travelers.
.861 Travel on Land.
.862 on Highways.
.863 " Railroads.
.864 Travel on Water.
.865 Light-houses, Buoys, etc.
.866 Pilots.
.867 Boats, Life-preservers, etc.
.868 Rescue of Shipwrecked. Life-saving Service.
.87 Exposure to Cold. Hospice of St. Bernard.
.88 Aid to Injured.
.881 Ambulance.
.882 Ambulance for Contagious Diseases. See also 614.44.
.883 "The Bed Wagon."
.9 **Hygiene of Animals. Veterinary Sanitation.**
.91 Infectious Diseases of Domestic Animals.
.92 Parasites of Animals. See 591.69, Economic zoölogy.
.93 Animal Diseases Communicable to Man. See also 614.56.
.94 Care and Housing of Animals.
.95 Feeding of Animals.
.96 Transportation of Animals.
.97 Methods of Slaughtering.
.971 Painless Extinction of Animal Life.

615 Materia Medica and Therapeutics.

.02, Compends; .05, Pharmaceutical Journals; .06, Pharmaceutical Societies; .07, Education, Schools of Pharmacy; .09, History.

.1 Materia Medica. Drugs.

For Examining boards, Laws, etc., see 614.24, Registration of Pharmacists. See also 614.35, Adulteration of drugs; 543.4, Chemical analysis.

.11 Pharmacopœias.
.12 Dispensatories.
.13 Formularies.
.14 Prescription writing. Posology.

.2 Inorganic Drugs.

Divided like 546. 615.218, Phosphorus; 615.258, Mercury; 615.272, Iron.

.3 Organic Drugs.

.31 Carbon Compounds. Divided chemically like 547.
.32 Vegetable Products. Divided botanically like 580.
.33 Vegetable Products. Divided by character.

1, Starches; 2, Sugar; 3, Glucosides; 4, Tannins; 5, Gums; 6, Drugs containing Alkaloids; 7, Bitters; 8, Organic Acids.

.34 Fixed Oils and Acids.
.35 Ferments. Diastase, Pepsin, etc.

.4 Practical Pharmacy.

.5 Therapeutics. Action of Medicines in General.

.51 Certainty of Medicines.
.52 Antagonism of Medicines.
.53 Law of Similars. Homœopathy.

Homœopathic works are classed with the subjects treated. This head is for Hahnemann's theory only.

.54 Influence of Age.

Infant therapeutics. Therapeutics of old age.

.55 Influence of Sex.
.56 Influence of Environment.
.57 Influence of Idiosyncracy.

.6 Administration of Medicines.

.61 By Stomach.
.62 " Rectum.
.63 " Subcutaneous tissue. Hypodermic medication.
.64 " Lungs. Inhalation. See also 612.385, Absorption.
.65 " Veins. Transfusion of blood.
.66 " Serous and Mucous Membranes. Peritoneum, Vagina, etc. See also 612.387, Absorption.
.67 " Skin. Baths. See also 612.384, Absorption.

.7 Medicines grouped by Effects.

Treatises on specific drugs, Digitalis, Ergot, etc., are classed in the divisions of Materia Medica, 615.2–615.3; Iron, 615.272; Digitalis, 615.32381.

.71 Drugs acting on Circulatory System.
.711 Stimulants.

Alcohol, Ammonia, Digitalis, Coffee, Ergot.

.716 Depressants.

Aconite, Veratrum group, Nitrites.

.72 Drugs acting on Respiratory System.
.721 Expectorants.
.726 Errhines. Sneezing.

615.73 Drugs acting on Digestive System.
.731 Emetics.

Ipecac, Mustard, Metallic Salts, Apomorphine.

.732 Cathartics.

1, Laxatives; 2, Salines; 3, Purgatives; 4, Hydragogues; 5, Drastics; 6, Mercurials.

.733 Anthelmintics.
.734 Aids to Digestion.

1, Bitters, Tonics; 2, Ferments, Pepsin, Pancreatine, etc.; 3, Acids, Antacids.

.735 Demulcents, Emollients, etc.

Bismuth, Oxalate of Cerium, etc.

.74 Drugs acting on Glandular System.
.741 Sialagogues. (Saliva.)
.742 Cholagogues. (Bile.)
.743 Diaphoretics. (Perspiration.)

Pilocarpine, Heat, Exercise.

.75 Antipyretics. Antiperiodics.

Quinine, Salicylates, Coal-tar products, Kairin, Antipyrin, Antifebrin, Cold, Baths. See also 613.41, Baths.

.76 Drugs acting on Genito-Urinary System.
.761 Diuretics.

Water, Citrates, Acetates, Digitalis, Caffeine, Copaiba.

.766 Uterines. Oxytocics.

Viburnum, Ergot, etc.

.77 External Agencies.
.771 Irritating.
.772 Astringents.
.773 Rubefacients.
.774 Epispastics. Blisters.
.775 Escharotics. Caustic potassa.
.776 Protective. Emollient.

Fats, Oils, Powders, Starch, Bismuth, Oxide of Zinc.

.777 Deodorants. Disinfectants. See 614.48, Disinfection; 614.64, Disinfection of dead.
.778 Antiseptics. Germicides.
.78 Drugs acting on Nervous System. See also 615.95, Neurotic Poisons.
.781 Anæsthetics. Chloroform, Ether.
.782 Hypnotics. Chloral, Bromides.
.783 Analgesics. Opium.
.784 Mydriatics. Belladonna.
.785 Excitants. Strychnine.
.786 Depressants. Conium.
.788
.789 Other Drugs.

Camphor, Valerian, Asafetida.

.79 Mineral Waters. See also 613.38, Hygiene; 553.7, Occurrence in nature.

.8 Other Remedies.

.81 Mechanical Remedies.
.811 Blood-letting. Venesection. Cupping.
.812 Setons and Issues.
.813 Bandages. Ligatures.
.814 Acupuncture.
.815 Pneumatic Aspiration.
.82 Massage. See also 613.71, Gymnastics.

615.83 Imponderable Remedies.
.831 Light. Blue glass.
.832 Temperature. Heat. Cold.
.833 Moisture.
.834 Climate. See also 613.1, Hygiene.
.835 Altitude.
.836 Pneumatic Differentiation.
.837 Music.
.84 Electricity. Electro Therapeutics. See 537.87.
.85 Cures.
.851 Mind Cure. Influence of mind on body. See also 130, Mind and Body.
.852 Faith Cure. See 265.8, Religion.
.853 Water Cure.
.854 Food Cures. Grapes, Milk, Beef, etc.
.855 Thomsonianism. Herb Doctors.
.856 Perkinism. Metallic Tractors.
.86
.87
.88
.89 Ancient and Mediæval Remedies.
Including those of modern uncivilized peoples.

.9 Toxicology. Poisons.

For detection of poisons, see 543.5; Sale of poisons, 614.28; Poisoned wounds, 617.148.

.91 Irritant Poisons.
.92 Mineral Irritants.
.921 Acid Poisons.
.922 Alkaline Poisons.
.923 Non-metallic Poisons.
.924 Phosphorus. See also 615.218, Drugs.
.925 Metallic Poisons.
.926 Arsenic. See also 615.219, Drugs.
.927 Mercury. See also 615.258, Drugs.
.928 Lead. See also 615.251, Drugs.
.929 Copper. See also 615.256, Drugs.
.93 Vegetable Irritants.
Hellebore, Aloes, Croton oil, etc.
.94 Animal Poisons.
Cantharides, Diseased meat, Ptomaines, Tyrotoxicon, etc.
.95 Neurotic Poisons. See also 615.78, Drugs acting on nervous system.
.96 Cerebral or Narcotic Poisons. Carbonic oxide and acid.
.961 Opium.
.962 Prussic Acid.
.963 Cyanides.
.964 Alcohol.
.965 Ether.
.966 Chloroform.
.967 Chloral Hydrate.
.97 Spinal Poisons.
Nux vomica, Strychnia.
.98 Cerebrospinal Poisons.
Aconite, Belladonna, Lobelia.
.99 Cerebrocardiac Poisons.
Digitalis, Tobacco.

616 Pathology. Diseases. Treatment.

May be subdivided by a o like 610, if wished. Use 616.01 for Etiology, Germ theory, Classification of diseases. Use 616.07 for Diagnosis, Study of disease, and subdivide it as follows: 1, Pulse; 2, Tongue; 3, Eye, Skin, etc.; 4, Auscultation, Percussion; 5, Thermometry; 6, Chemistry, Urine analysis; 7, Microscopy; 8, Pathological anatomy; 9, Post-mortem examination.

.1 Diseases of Circulatory System.

.11 Membranes of the Heart.
.12 Heart. Angina Pectoris.
.13 Arteries.
.14 Veins.
.15 Blood.

.2 Diseases of Respiratory System.

01, Croup; 02, Hay Asthma, Hay Fever; 03, Influenza, Epidemic Catarrh; 04, Whooping Cough, see also 614.543; 05, Coryza, Catarrh; 06, Asphyxia.

.21 Nose. Naso-pharyngeal Space.
.22 Larynx.
.23 Trachæa. Bronchi. Bronchitis. Asthma.
.24 Lungs.
1, Pneumonia, Lung Fever; 2, Congestion; 3, Hemorrhage; 4, Abscess; 5, Gangrene; 6, Phthisis, Consumption, see also 614.542; 7, Embolism and Aneurism of Pulmonary Artery; 8, Emphysema; 9, Collapse.
.25 Pleura. Pleurisy.

.3 Diseases of the Digestive System.

For diseases of teeth see 617.6.

.31 Mouth. Tongue. Fauces.— Sore Throat. Quinsy. Mumps. See also 614.544.
.32 Pharynx. Œsophagus.
.33 Stomach.— Gastritis. Dyspepsia. Vomiting.
.34 Intestines.— Hernia. Diarrhœa. Constipation. Colic.
.35 Rectum. Anus.— Piles.
.36 Liver. Gall-Bladder.— Jaundice.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.— Peritonitis.
.39 Dietetic Diseases.
Surfeit. Starvation. Scurvy. Dyspepsia.

.4 Diseases of the Lymphatic System.

.41 Spleen.
.42 Lymphatics. Thoracic Duct.
.43 Thymus.
.44 Thyroid Body. Goître.
.45 Suprarenal bodies.

.5 Dermatology. Skin Diseases.

.51 Inflammatory Affections.
Diffuse, Papular, Scaly. Nettlerash. Hives.
.52 Catarrhal, Vesicular, Pustular. Eczema. Shingles. See also 614.561.
.53 Disorders of Sebaceous Glands.
.54 Hypertrophies. Atrophies.
Corns. Warts. White hair. Baldness.
.55 New Formations. Pigmentary Changes.
Albinism. Freckles.
.56 Disorders of Sweat Glands.
.57 Parasitic Diseases. See 616.96, Parasitic Diseases.
.58 Other Skin Diseases.
Chilblain. Frostbite. Chaps.

616.6 **Diseases of Genito-Urinary System.**

For Diseases of women, see 618.

.61 Kidneys. Ducts.— Bright's Disease.
.62 Bladder.— Calculus.
.63 Urinary Disorders.— Diabetes.
.64 Male Urethra.
.65 Prostate.
.66 Penis.
.67 Scrotum.
.68 Spermatic cord. Testes.
.69 Functional Diseases of Male Generative Organs.— Spermatorrhœa. Impotence.

.7 **Diseases of the Organs of Locomotion.**

.71 Bones (except spine).
.72 Joints (except spine).
.73 Spine.— Curvature.
.74 Muscles.
.75 Tendons. Fasciæ.
.76 Bursæ. Sheaths of Tendons.
.77 Connective Tissue.

.8 **Diseases of Nervous System.**

.81 Diseases relating to Cerebro-Spinal Circulation. Apoplexy.
.82 Diseases relating to Cerebro-Spinal Meninges.
.83 Structural Diseases of Brain and Cord.
.84 Functional Diseases of Brain and Cord.

1, Vertigo; 2, Paralysis; 3, Neurasthenia; 4, Spinal Irritation; 5, Eclampsia, Convulsions.
For Insanity see 132.1.

.85 Neuroses.

1, Chorea, St. Vitus's Dance; 2, Hysteria, see 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria; 3, Epilepsy; 4, Tetanus, Lockjaw; 5, Aphasia; 6, Anæsthesia, Hyperæsthesia; 7, Megrim, Sick-headache.

.86 Neuroses due to special Poisons.

1, Alcoholism, see also Dipsomania, 132.7; 2, Metallic Tremor.

.87 Diseases of Nerves.— Neuralgia. Cramp.
.88 Diseases of Sympathetic System.

.9 **General Diseases.**

.91 Infectious Diseases.

1, Eruptive Fevers; 2, Small Pox, see also 614.471 and 614.521; 3, Cow Pox; 4, Chicken Pox, see also 614.525; 5, Measles, see also 614.523; 6, Rubeola, see also 614.524; 7, Scarlet Fever, Scarlatina, see also 614.522.

.92 Other Fevers. General Works on Fevers. See 612.57, Animal Heat.

1, Dengue, Break-bone Fever; 2, Typhus, see also 614.526; 3, Plague; 4, Relapsing Fever, Famine Fever; 5, Cerebro-spinal Fever; 6, Simple Continued Fever; 7, Enteric Fever, Typhoid Fever, see also 614.511; 8, Yellow Fever, see also 614.476 & 614.541.

.93 Diphtheria. Cholera. Malarial Fever.

1, Diphtheria, see also 614.512; 2, Asiatic Cholera, see also 614.475 and 614.514; 3, Sporadic Cholera; 4, Epidemic Diarrhœa, see also 614.517; 5, Dysentery, see also 614.516; 6, Malarial Fever, see also 614.53.

.94 Septic Diseases.

1, Phagedæna; 2, Erysipelas; 3, Pyæmia; 4, Septicæmia.

.95 Venereal Diseases. Hydrophobia, etc.

1, Syphilis, see also 614.547; 2, Gonorrhœa, see also 614.548; 3, Hydrophobia, see also 614.477 and 614.563; 4, Glanders, see also 614.564; 5, Horse Pox; 6, Splenic Fever.

616.96 Parasitic Diseases. See also 614.55.
.961 Animal Parasites. See 591.69, Economic Zoölogy; 614.92, Parasites of animals.
.962 Entozoa.
.963 Trematoda. Flukes.
.964 Cestoda. Tape-worms.
.965 Nematoda. Round worms, Thread worms, Trichinæ. See also 614.562.
.966 Acanthocephala. Thorn-headed worms.
.967 Insecta parasitica. Maggots.
.968 Ectozoa.

1, Insecta parasitica, Musquitoes, Gnats, Bed bugs, Fleas, Lice; 5, Arachnida parasitica, Mites, Ticks; 8, Suctoria parasitica, Leeches.

.969 Vegetable Parasites. See 581.69, Economic Botany.
.97 Effects of Poisons. See 615.9, Toxicology.
.98 Effects of Injuries and Climate.

1, Presence of foreign bodies; 2, Mechanical injuries; 3, Excessive Exertion and Strain; 4, Excessive Venery; 5, Privation; 6, Exhaustion; 7, Chemical agents; 8, Climate.

.99 Other General Diseases.
.991 Rheumatism, Rheumatic Fever. Gout.
.992 Tumors.
.993 Non-malignant. Cysts. Wens.
.994 Malignant. Cancer.
.995 Tubercle.
.996 Scrofula. Rickets.
.997 Myxœdema. Cretinism.
.998 Leprosy. See also 614.546.

617 Surgery.

May be subdivided by a o like 610, if wished.

.1 **Injuries.**

.11 Burns and Scalds.
.12 Lightning and Electric Shock.
.13 Contusions and Abrasions.
.14 Wounds.

1, Incised; 2, Contused; 3, Lacerated; 4, Punctured; 5, Gun-shot, see 617.99 Military surgery; 6, With lodgment of foreign bodies; 7, With complete separation of parts; 8, Poisoned, see 615.9 Toxicology.

.15 Fractures.
.16 Dislocations.
.17 Sprains.
.18 Asphyxia.

.2 **Results of Injuries.**

Constitutional effects and other complications. See also 616.94, Septic diseases.

.21 Shock.
.22 Inflammation.
.23 Abscess. Sinus. Fistula.
.24 Ulcers. Sores.
.25 Mortification. Gangrene.
.26 Traumatic Fever.
.27 Tetanus. See also 616.854.

617.3 **Orthopædic Surgery. Deformities.**

For convenience the whole subject of deformities is classed here, though many of them have no surgical treatment. See also 573.8, Dwarfs and Giants; 573.9, **Monstrosities;** 613.91 Congenital defects.

.31 Incomplete Development or Growth.
Divided like 611, Anatomy.

.32 Incomplete Coalescence of Parts. Harelip.
.33 Coalescence of Parts.
.34 Extension of Commissure (Apparent Duplication).
.35 Coalescence of Fœtuses. Siamese Twins.
.36 Supernumary Parts or Organs. Extra Fingers or Toes.
.37 Disproportionate Growth of Parts.
.38 Transposition or Displacement of Parts.
.39 Congenital Distortions, including Talipes, Club Foot.

.4 **Surgical Operations.**

.41 Circulatory System.
.42 Respiratory System.
.43 Digestive System.
.44 Glandular and Lymphatic System.
.45
.46 Genito-Urinary System.
.47 Motor and Integumentary System.
.48 Nervous System.

.5 **Regional Surgery.**

.51 Head. Trephining.
.52 Face. Mouth. See 617.6, Dentistry; 617.7, Eye; 617.8, Ear.
.53 Neck. Throat.
.54 Chest.
.55 Abdomen.
.56 Pelvis.
.57 Upper Extremities. Artificial Arms, Hands, etc.
.58 Lower Extremities. Artificial Legs, Feet, etc.

.6 **Dentistry. Diseases of Teeth.**

.61 Diseases of Dental Pulp.
.62 Diseases of Dentine and Cementum.
.63 Diseases of Dental Periosteum.
.64 Malposition and Malformation of Teeth.
.65 Odontalgia. Toothache.
.66 Extraction of Teeth.
.67 Stopping Teeth.
.68 Transplanting Teeth.
.69 Artificial Teeth.

.7 **Ophthalmic Surgery. Diseases of the Eye.**

.71 Conjunctiva. Cornea. Sclerotic. Ophthalmia.
.72 Iris. Choroid. Ciliary Body.
.73 Optic Nerve. Retina.
.74 Lens and its Capsule. Vitreous Humor. Affections of the Globe. Cataract.
.75 Disorders of Vision.
Myopia, Shortsightedness, Astigmatism, Color-blindness.
.76 Muscular Apparatus. Lachrymal Apparatus.
Strabismus, Squint.
.77 Eyelids.
.78 Orbit and Neighboring Parts.
.79 Artificial Eyes.

617.8 **Diseases of the Ear.**

.81 Affections of External Ear.
82 Auricle.
.83 Auditory Canal.
.84 Affections of Middle Ear.
.85 Membrana Tympani.
.86 Eustachian Tubes.
.87 Mastoid Cells.
.88 Affections of Internal Ear.
.89

.9 **Operative Surgery.**

See 615.781, Anæsthetics.

.91 Armamentaria. Surgical Instruments.
.92 Orthopædic Appliances. Splints, Trusses, etc.
See 617.3, Orthopædic surgery.
.93 Surgical Dressings.
.94 Amputation. Resection
.95 Plastic Surgery.
.96
.97
.98
.99 Military Surgery.

618 Diseases of Women and Children. Obstetrics.

.1 **Gynæcology. Diseases of Women.**

.11 Ovary.
.12 Fallopian Tube.
.13 Periüterine Diseases.
.14 Uterus and Cervix.
.15 Vagina.
.16 Vulva.
.17 Functional and Symptomatic Disorders.
Diseases of Menstruation. Leucorrhœa. Sterility.
.18
.19 Diseases of Breast.

.2 Obstetrics.

.21 **Pregnancy. Physiology.**

.22 Diagnosis. Signs of Pregnancy.
.23 Duration.
.24 Hygiene. Management.
.25 Multiple Pregnancy. Twins, etc.

.3 **Pathology of Pregnancy.**

Diseases of Pregnancy and their Treatment.

.31 Ectopic Gestation. Extra-uterine Pregnancy
.32 Pathology of Ovum.
.33 Death and Retention of Fœtus.
.34 Pathology of Fœtal Appendages.
.35 Decidua.
.36 Placenta.
.37 Amnion.
.38 Umbilical Cord.
.39 Abortion. Miscarriage. Stillbirth. Molar Pregnancy.
See 173.4, Infanticide; 340.6, Medical jurisprudence; 343, Criminal law

618.4 **Parturition. Labor. Physiology.**

.41 Mechanism of Labor.
.42 Presentations. Positions.
.43 Clinical Course and Phenomena.
.44 Conduct of Normal Labor. Management.

.5 **Pathology of Labor.**

Abnormal Labor from Faults
.51 of Powers. Anomalies of Expellent Forces.
.52 of Passages. Mechanical Obstacles to Expulsion of Fœtus.
.53 of Child. Abnormalities of Fœtus. See 617.3, Deformities. Complications.
.54 Hemorrhage.
.55 Rupture or Laceration of Genital Tract.
.56 Retention of Placenta.
.57 Inversion of Uterus.
.58 Prolapsus Funis.
.59 Other Complications.

.6 **Puerperal State. Physiology.**

Management, including care of child.

.7 **Pathology of Puerperal State. Puerperal Diseases.**

.71 Diseases of Lactation. Milk Fever. Mastitis, etc.
.72 Puerperal Fever. See 614.545, Public health.
.73 Metritis. Peritonitis, see also 616.38. Cellulitis.
.74 Septicæmia, see also 616.944. Pyæmia, see also 616.943.
.75 Convulsions. See 616.845, Eclampsia.
.76 Puerperal Mania. See 132.1, Insanity.
.77 Phlebitis. Venous Thrombosis. Phlegmasia Dolens. See 616.14, Diseases of veins.
.78 Other Puerperal Affections.
.79 Sudden Death after Delivery.

.8 **Obstetric Operations.**

.81 Application of Lever and Forceps.
.82 Version.
.83 Embryotomy.
.84 Dilatation of Os and Cervix.
.85 Symphyseotomy.
.86 Cæsarian Section.
.87 Removal of Placenta.
.88 Induction of Labor. Removal of Ovum.
.89 Intra-uterine Injections. Antiseptics in Midwifery.

.9 **Pædiatrics. Diseases of Children.**

619 Comparative Medicine. Veterinary.

.1 **Horses.**
.2 **Cattle.**
.3 **Sheep, Goats.**
.4 **Swine.**
.5 **Poultry.**
.6 **Birds.**
.7 **Dogs.**
.8 **Cats.**
.9 **Other.**

620 Engineering.

.01, Statistics; .02, Quantities and Cost; .03, Contracts and Specifications; .04, Designs and Drawings; .05, Executive; .06, Working and Maintenance; .07, Laws; .08, Patents; .09, Reports.
.1, Strength of Materials; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Tables and Calculations; .9, History of Engineering.

621 Mechanical Engineering.

May be subdivided like 620 and 620.0.

.1 **Steam Engineering.** See 536.81.

.11 Mechanism of Steam Engine.
.12 Marine Engines and Ship Propulsion. See 699.
.13 Locomotive Engines.
.14 Traction Engines.
.15 Portable Engines.
.16 Stationary Engines.
.17
.18 Steam Generation. Boilers. Furnaces.
.19 Steam Heating. See 697, 536.83, 628.8, 644.

.2 **Water Engines or Motors.**

.21 Water Wheels. See 532.84.
.22 Overshot and Breast Wheels.
.23 Undershot Wheels.
.24 Turbines.
.25 Water Pressure Engines. See 532.82.
.26 Hydraulic Presses. See 532.81.
.27 Hydraulic Ram. See 532.83.
.28
.29 Mill Dams. Sluices, etc. See 627.8.

.3 **Electrical Engineering.**

.31 Dynamo Machines. See 537.83.
.32 Electric Lighting. See 537.83.
.33 Electric Railways.
.34 Transmission of Electric Force. See 537.84.
.35 Storage of Electric Force. See 537.84.

.4 **Air and Gas Engines and other Motors.**

.41 Caloric Engines.
.42 Compressed Air Engines.
.43 Ignited Gas Engines. See 536.82
.44 Binary Vapor Engines.
.45 Windmills.
.46 Animal Motors. Tread Mills.
.47 Solar Engines.

.5 **Air Compressors. Ice Machines.**

.6 **Blowing and Pumping Engines.**

.61 Piston Blowers.
.62 Rotary Blowers. Fans.
.63 Centrifugal Blowers.
.64 Steam Pumps and Pumping Engines.
.65 Piston Pumps.
.66 Rotary Pumps.
.67 Centrifugal Pumps.
.68 Fire Engines. See 352.3. Fire Dep't; 614.84, Fires.
.69

621.7 **Mills and Manufacturing Works.**

.8 **Mill Work and Mechanism of Transmission.**

.81 Principles of Mechanism. See 531.8.
.82 Journals, Shafting, etc.
.83 Toothed Wheels.
.84 Valve Motions and Gears.
.85 Machinery and Mill Gearing.
.86 Hoisting and Conveying Machinery.
.87 Cranes and Elevators.
.88
.89 Lubricants. Friction. See also 531.4, Mechanics.

.9 **Machine Tools.**

.91 Planing Machines.
.92 Grinding and Filing.
.93 Cutting and Sawing.
.94 Turning and Milling. Lathes.
.95 Perforating. Drills.
.96 Punching and Shearing.
.97 Hammers. Riveting.
.98 Bending. Straightening. Shaping.
.99 Fastening. Bolts. Rivets. Screws.

622 Mining Engineering. See also 338.2, Mining products.

May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009.

.1 **Exploration and Prospecting.**

.11 Theory. Applied Geology, etc.
.12 Prospecting. Practical Methods.
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19.
.17
.18
.19 Mining Prospectuses. See 553

.2 **Practical Mining.**

.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering. Masonry lining. See also 622.56.

.3 **Working of Mines. Exploitation.**

.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Coal Mining. See 553.2.
.34 Metal Mining. See 553.3 and .4.
.35 Working Thick Deposits.
.36 Salt Mining. See 553.63.

622.4 **Ventilation and Lighting of Mines.**

.41 Theory. Gases met with, etc.
.42 Natural Ventilation.
.43 Furnaces. Steam Jets, etc.
.44 Fans. See 621.62.
.45 Airways. Stoppings. Regulators.
.46 Measurement of Ventilation.
.47 Lighting. Safety Lamps, etc.

.5 **Drainage.**

.51 Theory of Infiltration of Water.
.52 Natural Drainage.
.53 Cornish Pumps. See 621.64
.54 Steam Pumps. See 621.64.
.55 Hoisting of Water.
.56 Dams and Watertight Linings. See also 622.28, Timbering.
.57 Acid Waters.

.6 **Extraction. Hoisting and Transportation.**

.61 Handling Mineral in Working Place.
.62 Underground Roads.
.63 Mine Cars. Trams, etc.
.64 Gravity Roads and Planes.
.65 Tramming and Animal Haulage. See 625.7.
.66 Mechanical Haulage.
.67 Hoisting Engines. Drums. Ropes.
.68 Cages. Skips. Buckets.
.69 Surface Transportation.
Including Mineral Roads, Wire Rope-ways, Transhipment, Loading and Unloading, etc.

.7 **Mechanical Preparation. Ore Dressing.**

.71 Theory. Preliminary Operations.
.72 Hand Dressing.
.73 Crushing. Stamping Engine.
.74 Screening.
.75 Jigging. Ore Concentrators.
.76 Slime Treatment.
.77 Magnetic Separation.
.78 Coal Washing.
.79 Dressing Works.

.8 **Dangers and Accidents.** See also 613.6, Hygiene; 331.82, Laboring classes.

.81 Explosions of Fire-Damp.
.82 Mine Fires.
.83 Crushing and Fall of Ground.
.84 Flooding of Mines.
.85 Accidents to Miners.
.86 Rescue and Relief.
.87
.88
.89

623 Military and Naval Engineering.

For Military and Naval Science, Maneuvers, Strategy and Tactics, see 355 to 359.

.1 Fortifications. Field and Permanent.
.2 Siege Operations; Mines, etc.
.3 Defensive Operations.
.4 Ordnance and Projectiles. Arsenals.
.5 Gunnery.
.6 Military Roads and Bridges.
.7 Military Signals; Telegraph, Ballooning, etc.
.8 Naval Architecture. See also 699, Ship building.
.9 Armored Vessels, Torpedoes, etc.

624 Bridges and Roofs.

.1 Piers. Foundations, etc.
.2 Girders. Stresses and Strains.
.3 Trussed Bridges.
.4 Tubular Bridges.
.5 Suspension Bridges.
.6 Arched Bridges.
.7 Compound Structures.
.8 Movable Bridges.
.9 Roofs.

625 Railroad and Road Engineering.

See also 624, Bridges; and 622.2, Tunnels; 622.26, Excavations, etc.

.1 Route. Road Bed, Rails, Ties, etc.
.2 Trains. Brakes, Couplings, Wheels, etc. See 621.13, Locomotives.
.3 Inclines and Mountain Railways.
.4 Elevated and Underground Roads. Subways. See also 614.782.
.5 Cable Roads.
.6 Horse Cars. Tramways.
.7 Roads. Highways.
.8 Pavements. See also 628.47, Sanitation of towns.
.9 Ship Railways.

626 Canal Engineering.

.1 Route.
.2 Water Supply.
.3 Size and Shape.
.4 Locks.
.5 Lifts and Inclined Planes.
.6 Canal Boats. Size, Shape, etc. See 699, Shipbuilding.
.7 Towing., Power, etc.
.8 Irrigation Canals and other Irrigation Works.
.9 Ship Canals.

627 River, Harbor, and General Hydraulic Engineering

.1 Rivers. Force of Water. Discharge. Bars.
.2 Harbors. Breakwaters.
.3 Docks. Piers. Quays. Shipping Facilities.
.4 Dikes and Levees. Embankments.
.5 Other Protection and Reclamation of Land from Tides and Waves. Drainage. For Agricultural Drainage see 631.
.6 Jetties.
.7 Dredging. Dredging Machinery.
.8 Dams.
.9 Lighthouses. Buoys.

628 Sanitary Engineering. Water-works.

.01, Theories, Utility; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Polygraphy; .09, History and Description of Sanitation and General Sanitary Works, divided geographically like 930-999.

.1 Water Supply of Towns. For isolated supply see 628.7.

.11, Sources of Water Supply; Lakes, Rivers, Springs, Wells, and Pumping. .12, Pumping vs. Gravitation Systems; Pump-well; Stand-pipe; High Service; Holly System. .13, Storage and Service Reservoirs. .14, Conduits; Aqueducts; Tunnels (see 622) .15, Mains and Service Pipes; Freezing; Iron; Lead. .16, Impurities and their Removal; Filter-basins, etc. .17, Public (Sprinkling, Fire, Flushing), Manufacturing, and Domestic Use and Waste; Meters.

.2 Sewerage Works.

.21 Sewerage Systems.

1, Combined System; 2, Separate System; 3, Liernur System; 4, Shone System; 5, Berlier System; 6, Other Systems; 7, The Outfall; 8, Depth and Alignment; 9, Grade and Velocity.

628.22 Shape and Size of Sewers.

1, Storm-water Flow; 2, Ordinary Flow; 3, Circular Section; 4, Ordinary Egg-Shape; 5, Other Egg-Shapes; 6, Other Forms; 7, ; 8, Formulas for Size.

.23 Ventilation of Sewers.

1, Openings in Streets; 2, Lamp Posts; 3, Flues in Houses; 4, Pipes on Houses; 5, House Drains; 6, Chimneys and Furnaces; 7, Charcoal and Chemicals to deodorize sewerage gas; 8, Special Mechanism; 9, Special Construction.

.24 Design and Construction of Sewers.

.25 Sewer Appurtenances.

1, Junctions; 2, House Connections; 3, Manholes and Lampholes; 4, Flushing Shafts and Fixtures; 5, Catch Basins and Inlets; 6, Traps and Ventilators; 7, Valves and Penstocks; 8, Overflows and Regulators; 9, Miscellaneous.

.26 River Crossings.

.27 Intercepting and Outfall Sewers.

.28 Reservoirs and Tank Sewers.

.29 Pumping Stations.

.3 Disposal of Sewage.

.31 Physical Properties of Sewage.

.32 Deodorization and Disinfection of solids and liquids. See 628.237.

.33 Subsidence.

.34 Precipitation.

1, Precipitation Tanks; 2, Mixing Machinery; 3, Filter Presses; 4, Precipitation by Salts of Alumina; 5, By Lime; 6, By Salts of Iron; 7, By Other Methods; 8, Disposal of Sludge; 9, Miscellaneous.

.35 Filtration.

.36 Irrigation.

1, Broad Irrigation; 2, Ridge and Furrow Irrigation; 3, Flat Bed Irrigation; 4, Sub-Surface Irrigation; 5, Intermittent Downward Filtration; 6, Carriers and Appurtenances; 7, Drains and Drainage of Sewage Farms; 8, Filtration Areas; 9, Miscellaneous.

.37 Sewage Farming. Required modifications of ordinary methods.

.38 Sewage Manures.

.39 Discharge into Sea, etc.

.4 Sanitation of Towns.

.41 Middens and Privies.

.42 Pail Systems.

.43 Earth Closet Systems.

.44 Domestic Ashes and Garbage.

.45 Public Urinals and Latrines.

.46 Street Cleaning and Sprinkling.

.47 Pavements and Subways.

.48 Trees in Streets and Squares.

.49 Manufacture of Fertilizers from Town Wastes.

.5 Industrial Sanitation.

.51 Factories and Trades.

1, Prevention of Dust and Fumes; 2, Protection of Throat and Eyes; 3, Protection against Infection; 9, Special Trades.

.52 Effluvium Nuisances.

1, Situation of Works; 2, Use of High Chimneys; 3, Condensation in Water; 4, Combustion in Furnaces; 9, Special Trades.

.53 Smoke Nuisance.

8, From Steam Generators; 9, From Special Industries.

.54 Disposal of Solid and Liquid Wastes.

1, Discharge into Streams; 2, Absorbing Wells and Burial; 3, Clarification by Subsidence; 4, Chemical Treatment; 5, Filtration; 6, Purification by the Soil; 9, Special Methods and Special Trades.

.6 House Drainage.

.7 Rural Water Supply. Villages and Country houses.

.8 Ventilation and Heating. See 697, 644, 628.23, 622.4, 621.19.

This head is chiefly for Ventilation. Most matter on Heating goes in 697.

.9 Lighting. See 621.32, 537.83, 644, 665.

629 Other Branches of Engineering.

630 Agriculture.

1, ; 2, Compends; 3, Dictionaries, cyclopedias; 4, Essays; 5, Periodicals, 6, Societies; 7, Study and teaching; 8, ; 9, History, divided like 930–99.

631 Soil. Fertilizers. Drainage.

632 Pests. Hindrances. Blights. Insects.

633 Grains. Grasses. Fibres. Tea. Tobacco, etc

634 Fruits. Orchards. Vineyards.

.9, Forestry. See also 715, Landscape gardening.

635 Kitchen garden. See 716 for Flower gardens.

636 Domestic animals. See also 619, Veterinary medicine; 599.7, Zoölogy.

.1 Horses. Asses. Mules. See 682.1, Horseshoeing.

.2 Cattle.

.3 Sheep. Goats.

.4 Swine.

.5 Poultry.

.6 Birds.

.7 Dogs.

.8 Cats.

.9 Other. Camels, etc.

637 Dairy. Milk. Butter. Cheese.

638 Bees. Silkworms.

639 Fishing. Trapping.

640 Domestic economy. Hotels. Flats.

See also 334.4, Coöperative housekeeping; 331.83, Laboring classes.

641 Cookery. Gastronomy.

642 Confectionery. Ices.

643 Food. Dining. Carving.

See also 613.2–.3, Hygiene; 663, Beverages; 394.1, Customs.

644 Fuel. Lights. See also 697, 665, 621.32, 621.19.

645 Furniture. Carpets. Upholstery. Plate.

646 Clothing. Toilet. Cosmetics.

See also 613.4, Hygiene; 391, Costume and care of person.

647 Servants. Training. Duties. Wages.

648 Laundry.

649 Nursery. Children. Sick-room.

650 Communication. Commerce.

651 Office equipment and methods.

652 Writing. Materials, typewriters, cipher.

653 Abbreviations. Shorthand.

.01 Theories. Available material. Shading. Position. Detached vowels.

.02 Practicability for general use. Teaching in public schools.
For methods see 653.07.

.03 Speed. See also 653.046, Verbatim reporting.

.04 Applications.
.041, Personal notes and records; .042, Correspondence; .043, Amanuensis work; .044, Newspaper work; .045, Shorthand job offices; .046, Official reporting, court and legislative; .047,

.05 Periodicals. If strictly limited to one system, class with that system.

.06 Societies. " " " "

.07 Education. Shorthand schools. Teaching, privately or in classes.

.08

.09 History. Divided by countries like 930–999.

.1 Abbreviations. Omissions of silent letters, vowels, etc.
Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4, Phonetic spelling; 421.8, Abbreviations.

.2 Abbreviation systems.
Brief longhand. Fonoscribing, etc. For telegraphic codes, see 652.
Covers only systems of quick writing with common characters.

.3 Stenographies.
Includes both discussions and systems with arbitrary signs and new characters.
.31, Before 1837; .32, Gurney; .33, Gabelsberger; .34, Stolze (Dettmann); .35, Taylor (Baker; Harding; Odell); .36, Cross; .37, Scovil; 8, Duployé (Pernin, Sloan).

.4 Phonetic shorthand. Phonographies.
Limited to phonetic stenography, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants.
.41, Before Pitman (1837); .42, Bell; .43, Jones; .44, Williams; .45,

.5 Pitman old vowel scale systems.
.51, Benn Pitman; .52, Graham; .53, Scott-Brown; .54, Marsh; .55, Thornton; .56, Haven; .57, Allen; .58,

.6 Pitman new vowel scale systems.
.61, Izaac Pitman; .62, Munson; .63, Longley; .64, Burnz; .65,

.7 Connected vowel systems.
.71, Lindsley's takigrafy; .72, Evcrett; .73, Barrows; .74, Bishop.

.8

.9 Foreign systems. Divided by languages like 400.
The heads above are for English systems or (as in .33) foreign systems adapted to and used for English. Other systems are grouped here by languages, but history of shorthand in special countries is in 653.09.

654 Telegraph. Cables. Signals. For codes see 652.

.1 Telegraphic instruments.

.2 Duplex, quadruplex, multiplex telegraphs, etc.

.3 Printing, perforating, dial telegraphs, etc.

.4 Telegraphic construction; poles, wires, conduits, etc.

.5 Cables. Submarine.

.6 Telephones.

.7 Alarms; burglar, fire. Annunciators, bells.

.8 Speaking tubes. Pneumatic tubes.

.9 Signals. See also 534.83, Navigation signals; 623.7, Military signals.

655 Printing. Publishing. Copyright.

.1 History of printing.

.11 Origin. Invention.

.111 Claims of Gutenberg, Mainz.

.112 Claims of Coster, Haarlem.

.12 Celebrations, anniversaries.
1, 1640; 2, 1740; 3, 1823; 4, 1840.

.13–.19 Printing in special countries. Divided like 930–999.

.2 Type and Type Setting.

.21 Type founding. Tools of the art.

.22 Electro and stereotyping, etc. Patent blocks.
For Photo-electrotyping, see 777.

.23 Patent types. Logotypes, etc.

.24 Faces; sizes; styles. Specimen books.

.25 Type setting. Composition. Proof reading.

.26 Artistic composition. Taste. Display. Job work.

.27 Imposition. Locking up, etc.

.28 Type setting and distributing machines. Linotype.

.3 Practical printing. For Calico printing, see 667.2.

.31 Printing presses.

.32 Press work. Making ready. Colors. Cuts.

.33 Drying. Hydraulic pressing, etc.

.34

.35 Stamps, stencils, etc.

.36 Machines. Paging, numbering, addressing, etc.
See also 654.3, Printing telegraphs; 651, Type writers.

.37 Nature printing. From plants, etc.

.38 Printing for blind. See also 371.91, Education of blind.

.4 History of publishing and bookselling.
Divided by countries like 930–999.

.5 Publishing and bookselling.

.51 Selection of mss.
For Freedom of press *vs.* censorship, see 323; Morals of press, 179.1.

.52 Relations to authors. Copyright payments. Prices of mss. bought.

.53 Size, paper, type, illustrations, binding.

.54 Cost of manufacture. Retail prices and discounts to dealers.

.55 Advertising, press copies and notices. See 659, Advertising.

.56 Retail bookselling. Prices and discounts to buyers.

.57 Subscription book publishing. Canvassing.

.58 Publishing societies.

.59 Publishing by governments, institutions, etc.

.6 Copyright. Literary property.

.61 Perpetual or common law right. Including ethics of copyright.

.62 Copyright in other matter than books. Music, mss., lectures, trademarks.

.63 International copyright. See also 341.5, International private law.

.64–.69 Copyright in special countries. Divided like 940–999.

656 Transportation. Railroading, etc.

657 Book-keeping. Accounts.

658 Business manuals. Methods. Tables.

659 Advertising and other topics.

660 Chemical Technology.

.1, ; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, ; .9, History of Chemical Technology.

661 Chemicals.

.1 Chemical Elements. Divided like 546.
.2 Acids. Sulphuric, Nitric, etc.
.3 Alkalies. Potash, Soda, Ammonia.
.4 Salts. For Common Salt see 664.4.
.5 Ammonia Salts.
.6 Sulphates and Nitrates.
.7 Cyanides.
.8

662 Pyrotechnics, Explosives, Matches, etc.

.1 Pyrotechnics.
.2 Explosives. See Blasting 622.23; Ordnance 623.4.
.3 Gunpowder.
.4 Fuses. Percussion Caps.
.5 Matches.
.6 Fuel. Coal, peat, natural gas, etc.
.7 Charcoal. Coke. See also 644, Domestic economy; 669.8, Metallurgy.
.8 Artificial fuel. See also 644, Domestic economy; 669.8, Metallurgy.
.9

663 Beverages. See also 178, Temperance; 614.35, Adulterations.

.1 Fermented.
.2 Wine.
.3 Brewed.
.4 Beer.
.5 Distilled.
.6 Artificial mineral waters. Soda water.
.7
.8 Mixing drinks. Bar-keepers' manuals.
.9 Chocolate. Cocoa. Commercial mixing of teas, coffees, etc.

664 Foods.

For Adulterations see 614.31, Public health. See also 641 and 643, Domestic economy.

.1 Sugar, molasses, glucose, etc.
.2 Starch, tapioca, sago, etc.
.3 Artificial butter. Oleomargarine. Lard, compound lard.
For butter, milk, and cheese see 637, Dairy.
.4 Salt.
.5 Spices. Condiments.
.6 Yeast. Baking powder.
For Bread see 641, Cookery.
.7
.8 Preservation of fruits and vegetables.
.9 " " meat and fish.

665 Oils. Gases. Candles. Lamps.

.1 Candles. Torches.
.2 Animal oils and fats. See also 664.3, Foods.
.3 Vegetable oils and fats.
.4 Mineral oils. Paraffine. Ozocerite. Asphaltum.
.5 Petroleum. Kerosene.
.6 Lamps. See also 644, Domestic economy.
.7 Illuminating gases. Calcium light.
.8 Other gases.
.9

666 Ceramics. Glass, etc.

.1 Glass. See also 748, Stained glass.
.2 Enamel.
.3 Ceramics. See also 738, Pottery, porcelain.
.4 Clay. See also 553.61, Economic geology.
.5 Porcelain.
.6 Stoneware. Earthenware. Pottery.
.7 Bricks. Tiles. See also 691.4, Building materials; 695.3, Roofing.
.8 Artificial stone. See also 691.3, Building materials.
.9 Cements. Limes. Mortars. See also 691.5, Building materials.

667 Bleaching, dyeing, etc.

.1 Bleaching.
.2 Dyeing. Artificial colors. Silk and wool.
.3 Cotton dyeing and calico printing.
.4 Inks. Writing inks. Indelible inks.
.5 Printing inks.
.6 Paints and pigments. See also 698.1, House painting; 751, Fine arts.
.7 Varnishes. Polish. Lacquer. See also 698.3, Varnishing.
.8 Japan. Blacking.
.9

668 Other organic chemical industries.

.1 Soap.
.2 Glycerine.
.3 Glue.
.4 Gums and resins.
.5 Essences, perfumery, essential oils and ethers, etc.
See also 646, Toilet.
.6 Fertilizers. See also 631, Agriculture.
.7 Distillation. Coal tar, etc.

669 Metallurgy and assaying.

History of metals goes here, not in 553, 622, nor 671.

.1 Iron and steel.
.2 Gold and silver.
.3 Copper.
.4 Lead.
.5 Zinc.
.6 Tin.
.7 Mercury and other metals.
.8 Fuels and furnaces. Slags.
.9 Assaying.

670 Manufactures.

Specific topics go where of most interest. These heads are for the *general* subject of metal, wood, etc., manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether gronpt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general head is better; e. g., bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy.

671 Articles made of Metals.

672 Of Iron and Steel; Stoves, Cutlery, etc.

673 Of Brass and Bronze; Bells, etc. See also 739.

674 Lumber and Articles made of Wood.

675 Leather " " " " Leather.

676 Paper " " " " Paper.

677 Cotton, Wool, Silk, Linen, etc.

678 Rubber and Articles made of Rubber.

679 Celluloid and other.

680 Mechanic Trades. Amateur Manuals.

681 Watch and Instrument-making.

682 Blacksmithing.

.1 **Horseshoeing.**

683 Lock and Gun-making.

684 Carriage and Cabinet-making.

685 Saddlery and Shoe-making. Trunks.

686 Bookbinding.

687 Clothes-making. Hats.

688

689 Other Trades.

690 Building. For Architectural Construction, see 721.

.1, Theories of Construction; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies, Exhibitions; .7, Education, Study, Training, Apprenticeship, Tools and their Use (for the use of special tools see special trade); .8, Collections, Patents, Inventions; .9, History of Building Construction.

691 Materials. Processes. Preservatives.

See also 620.1, Strength of Materials.

.1 **Wood. Creosoting, etc.**
.2 **Natural Stone. Parafining, etc.**
.3 **Artificial Stone. Concrete.**
.4 **Bricks. Tiles. Other Ceramic Productions.**
.5 **Lime. Cement. Plaster.**
.6 **Glass.**
.7 **Iron. Steel. Anti-rust Processes.**
.8 **Other Metals.**
.9 **Other Materials.**

692 Plans. Specifications, etc.

.1 **General Drawings.**
.2 **Detail Drawings.**
.3 **Specifications.**
.4 **Contracts. Agreements. Bids. Advertisements.**
.5 **Estimates. Quantities. Cost.**
.6 **Superintendence.**
.7 **Supervision of Accounts.**
.8 **Professional Services. Fees. Commissions.**
.9 **Building Laws. Liabilities of Architects, Owners, and Contractors.**

693 Masonry. Plastering. Fire Proofing.

.1 **Stone Construction.**
.11 Bonds of Stone Work.
.12 Cutting and Dressing of Stone. See 515.8, Stereotomy; 736, Stone Carving.
.2 **Brick Construction.**
.21 Bonds of Brick Work.
.22 Adobe or Sun-dried Brick, etc.
.3 **Terra Cotta Construction.**
.4 **Hollow Tile and Porous Terra Construction.**
.5 **Concrete and Beton Construction.**
.6 **Plastering.**
.61 External Plastering and Stucco.
.62 Internal Plastering.
.63 Ornamental Plaster-work.
.64 Scagliola.
.65 Wooden Lath.
.66 Metal Lath. (Wire, etc.)
.67 Mineral Wool Linings, etc.
.7
.8 **Fire Proofing.**
.9

694 Carpentry. Joinery. Stair-building.
- .1 Wood Construction, General.
- .2 Joints of Wood-work. Framing.
- .3 Strengthened Beams.
- .4 Posts. Columns. See 721.31.
- .5 Panelled and Latticed Construction.
- .6 Joinery, General. For Finishing, varnish, polish, etc., see 698.3.
- .7 Ornamental Joinery. Cabinet-work.
- .8 Stair-building. See 515.83, Stereotomy.
- .9 Other branches. See 721.87–89.

695 Roofing. Slating. Tiling. See 721.4, Roof Constructions.
- .1 Shingle.
- .2 Slate.
- .3 Tile.
- .4 Metal. Tin. Copper. Lead. Zinc.
- .5 Iron.
- .6 Asphalt. Tar. Concrete. (Melted.)
- .7 Felt. Asbestos. Paper. (In rolls.)
- .8 Textile. Duck. Canvas.
- .9 Thatch and other Coverings.

696 Plumbing. Gas and Steam-fitting, etc.
- .1 Plumbing. See 628, Principles of Sanitation.
- .2 Gas-fitting.
- .3 Steam-fitting.
- .4 Rivets and Riveted Joints.
- .5 Screws and Screw Joints.
- .6 Rust or Calked Joints.
- .7 Anchors. Band Irons.
- .8 Other branches.
- .9 Plumbing Laws. See also 614.

697 Heating and Ventilation. See San. Eng., 628.8; Domestic Econ., 644.
- .1 Fireplaces.
- .2 Stoves.
- .3 Furnaces.
- .4 Hot Water, high and low pressure.
- .5 Steam, high and low pressure. For Boilers, see 621.18.
- .6 Gas. Coal Gas, Water Gas, Natural Gas.
- .7 Electric and Other Methods.
- .8 Smoke Flues and Chimneys.
- .9 Ventilation. Air Ducts. Conduits. Fans.

698 Painting. Glazing. Paper-hanging.
- .1 Painting. Oil.
- .2 Distemper and Fresco.
- .3 Varnishing. Polishing.
- .4 Other Modes of Protection.
- .5 Glazing. See 748, Stained Glass.
- .6 Paper-hanging.
- .7 Textile Hangings. Tapestry.
- .8 Relief Work. Lincrusta. Stamped Leather, etc.
- .9 Other branches.

699 Car and Ship Building.

Fine Arts.

700 Fine Arts.

701 Philosophy. Theories. Utility. Æsthetics.

702 Compends. Outlines.

703 Dictionaries. Cyclopedias.

704 Essays. Lectures. Addresses.

705 Periodicals. Magazines. Reviews.

706 Societies. Transactions. Reports, etc.

707 Education. Study and Teaching of Art.

708 Art Galleries and Museums.
- .1 American. Corcoran, Metropolitan, Boston.
- .2 English. National, Hampton Court, Windsor.
- .3 German. Dresden, Munich, Berlin, Vienna.
- .4 French. Louvre, Luxembourg.
- .5 Italian. Vatican, Sistine, Pitti, Medici, Borbonico.
- .6 Spanish. Madrid, Seville.
- .7 Russian. St. Petersburg, Hermitage.
- .8 Scandinavian. Copenhagen.
- .9 Other Countries.

709 History of Art in General. Divided like 930–999.

710 Landscape Gardening.

711 Public Parks.

712 Private Grounds. Lawns.

713 Walks. Drives.

714 Water. Fountains. Lakes.

715 Trees. Hedges. Shrubs.
See also 634.9, Forestry; 582, Botany.

716 Plants. Flowers.
.1, Plants; .2, Flowers; .3, Conservatories; .4, Window gardens; .5, Ferneries.

717 Arbors. Seats. Outlooks.

718 Monuments. Mausoleums.

719 Cemeteries. See also 393.1, Earth burial; 614.61, Public health

720 Architecture.

.1, Theories, Esthetics, Architectonics; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies; .7, Education, Study, Training, Schools of Architecture; .8, Polygraphy, Collections; .9, General History of Architecture, divided geographically like 940–999.

721 Architectural Construction.

.1 Foundations. See Bridge Engineering, 624.1, Foundations.

.11 Dimension Stone.
.12 Rubble Stone.
.13 Concrete.
.14 Sand or Gravel.
.15 Timber Gratings.
.16 Piles. Sand Piles.
.17 Sunken Wells.
.18 Sunken Tubes.
.19 Other Foundations.

.2 Walls.

.21 Wooden and Half-timbered.
.22 Stone.
.23 Artificial Stone, Concrete, Pisé, etc.
.24 Brick.
.25 Bases. Water Tables. Belt Courses.
.26 Arcades. Colonnades.
.27 Cornices.
.28 Gables and Pediments. See also 721.58, Gable Roofs.
.29 Other Walls.

.3 Piers. Columns.

.31 Wooden. See also Carpentry, 694.4.
.32 Stone.
.33 Concrete. Artificial Stone.
.34 Brick. Terra Cotta.
.35 Iron. Steel.
.36 Fire-proof. Protected.
.37
.38
.39

.4 Arched Constructions.

See 624.6, Arched Bridges; and 729.33 and 729.37, elementary forms.

.41 Arches, Circular.
.42 Arches, other forms.
.43 Vaults, Cylindrical.
.44 Vaults, Groined.
.45 Vaults, other forms.
.46 Domes, Circular.
.47 Domes, other forms.
.48
.49

721.5 Roofs. See 695, Roof Coverings; 624.9, Engineering, Roofs.

.51 Wooden.
.52 Masonry.
.53 Glass.
.54 Metallic.
.55 Windows. Openings in Roofs.
.56 Roof Decoration. Cresting, Repoussé work, Colored Tiles, etc. See 695.3.
.57 Spires and Domes.
.58 Gables. See also 721.28, Gable Walls.
.59 Other forms of Roofs.

.6 Floors and Flooring.

.61	Wooden.	Construction	and Coverings.
.62	Stone.	"	"
.63	Brick and Hollow Tile.	"	"
.64	Metallic. Compound.	"	"
.65	Composite.	"	"
.66	Parquetry. Coverings only.		
.67	Mosaics. "		
.68	Tiles. See 695.3, Roofing Tile.		
.69	Other Coverings.		

.7 Ceilings.

.71 Wooden.
.72 Stone.
.73 Brick or Tiles with Iron.
.74 Metallic.
.75 Concrete. Plaster.
.76
.77
.78
.79

For vaulted ceilings, see 721.4 and 729.34.

.8 Doors. Gates. Grilles. Windows.

.81 Doors, Wooden.
.82 Doors, Metallic.
.83 Doors, Sash, Lattice, Screen, etc.
.84 Windows, External.
.85 Windows, Internal.
.86 Enclosures of Doors and Windows.
Architraves. Pilasters. Jambs. Pediments. Lintels, etc.
.87 Shutters. Blinds. Screens. Grilles.
.88 Fastenings. Locks.
.89 Other details.

.9 Iron and Composite Structures.

For Strength of Material, see Engineering, 620.1.

.91 Cast Iron.
.92 Wrought Iron.
.93 Steel.
.94 Composite.
.95 Iron and Wood.
.96 Iron and Stone.
.97 Iron and Brick, Tile, Terra Cotta.
.98 Iron and Glass.
.99 Wood and Glass.

722 Ancient and Oriental Architecture. (Pagan.)

See also 571.8, Prehistoric Dwellings.

- .1 **Chinese. Japanese.**
- .2 **Egyptian.**
- .3 **Phenician. Tyrian. Jewish. Carthaginian. Cypriote.**
- .4 **Indian (Asiatic).**
  Hindoo, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian.
- .5 **Chaldean. Assyrian. Babylonian. Ancient Persian. Sassanian.**
- .6 **Pelasgian. Etruscan.**
- .7 **Roman.** See 729.32 for Roman Orders.
- .8 **Grecian.** See 729.32 for Greek Orders.
- .9 **Other. Aztec. Peruvian. Maya. Yucatan, etc.**

723 Mediæval. (Christian. Mohammedan.)

- .1 **Early Christian.**
- .2 **Byzantine. Armenian. Russian.**
- .3 **Mohammedan. Saracenic, Moorish, Persian, Turkish, Indian.** For Ancient Indian see 722.4.
- .4 **Romanesque.**
  - .41 Scotch. Irish.
  - .42 English. Saxon. Norman.
  - .43 German. Austrian.
  - .44 French. Provençal. Norman. Angevin.
  - .45 Italian. Sicilian Norman.
  - .46 Spanish. Portuguese.
  - .47
  - .48 Danish. Swedish. Norwegian.
  - .49 Minor Countries.
- .5 **Gothic or Pointed.** Divided like 723.4.

724 Modern.

All the sub-sections of 724 are subdivided geographically like 940–999.

- .1 **Renaissance.**
- .2 **Grecian Revival.**
- .3 **Gothic Revival.**
- .4 **Victorian Gothic. Tudor.**
- .5 **Queen Anne.**
- .6 **Néo-Grec.**
- .7 **Swiss. Timber.**
- .8 **Romanesque Revival.**
- .9 **Other Styles.**

725 Public Buildings.

- .1 **Administrative. Governmental.**
  - .11 Capitols. Houses of Parliament.
  - .12 Ministries of War, State, etc.
  - .13 City and Town Halls. Bureaus. Public Offices.
  - .14 Custom Houses. Bonded Warehouses. Excise Offices.
  - .15 Court Houses. Record Offices.
  - .16 Post Offices, General and Special.
  - .17 Official Residences. Palaces of Rulers.
  - .18 Barracks. Armories. Police Stations.
  - .19 Engine Houses. Fire Alarm Stations.
- .2 **Business and Commercial.**
  - .21 Stores, Wholesale and Retail.
  - .22 Mixed Store, Office, and Apartment Buildings.
  - .23 Office Buildings. Telegraph. Insurance.
  - .24 Banks. Safe Deposit. Savings.
  - .25 Exchanges. Boards of Trade.
  - .26 Markets.
  - .27 Cattle Markets. Stock Yards.
  - .28 Abattoirs.
  - .29 Other Business Buildings.
- .3 **Transportation and Storage.**
  - .31 Railway Passenger Stations.
    - .311 Small (country) Stations.
    - .312 Large (city) "
    - .313 Union "
    - .314 Stations on two levels.
    - .315
    - .316
    - .317 Street-car Stations.
    - .318 Elevated R. R. Stations.
    - .319 Underground R. R. Stations.
  - .32 Railway Freight Houses.
  - .33 Railway Shops, Round Houses, Car Houses, Tanks, Stores.
  - .34 Dock Buildings. Wharf Boats and Houses.
  - .35 Warehouses. Cold Storage. Safe Deposit Storage.
  - .36 Elevators, Grain.
  - .37
  - .38
  - .39 Other.
- .4 **Manufactories.**
  - .41 Textile Factories or Mills. Wool, Cotton, Silk.
  - .42 Breweries. Malteries. Distilleries.
  - .43 Foundries. Machine Shops. Iron and Steel Works.
  - .44 Wood-working Mills. Furniture Factories.
  - .45 Carriage and Car Factories.
  - .46 Paper Mills.
  - .47 Mills for Flour, Meal, Feed, etc.
  - .48 Pottery, Glass, Terracotta, Brick Works.
  - .49 Other Manufactories.

725.5 **Hospitals and Asylums.** See also 725.6. Reformatories.
.51 Sick and Wounded. Eye and Ear. Incurables. Lying-in.
.52 Insane.
.53 Idiotic. Feeble-minded.
.54 Blind. Deaf and Dumb.
.55 Paupers. Almshouses.
.56 Aged.
.57 Children. Orphans.
.58 Foundling.
.59 Soldiers' Homes.
.6 **Prisons and Reformatories.**
.61 State Prisons. Penitentiaries.
.62 Jails. Cell Houses.
.63 Reformatories for Adults. Houses of Correction.
.64 Reform Schools.
.65 Washingtonian Homes. Inebriate Asylums.
.66
.7 **Refreshment. Baths. Parks.**
.71 Cafés. Restaurants.
.72 Saloons.
.73 Baths; Warm, Medicated, Turkish, Russian.
.74 Swimming Baths.
.75 Buildings for Watering Places, Spas, etc.
.76 Buildings for Parks.
.8 **Recreation.**
.81 Music Halls.
.82 Theatres. Opera Houses.
.83 Halls for Lectures, Readings, etc.
.84 Bowling Alleys. Billiard Saloons.
.85 Gymnasiums. Turn Halls.
.86 Skating Rinks. Bicycle Rinks.
.87 Boat Houses.
.88 Riding Halls and Schools.
.89 Shooting Galleries.
.9 **Other Public Buildings.**
.91 Exhibition Halls.
.92 Temporary Halls. Tabernacles. Wigwams.
.93 Workingmen's Clubs and Institutes.
.94

726 Ecclesiastical and Religious.

.1 **Temples.**
.2 **Mosques.**
.3 **Synagogues.**
.4 **Chapels. Sunday-school Buildings.**
.5 **Churches.**
.6 **Cathedrals.**
.7 **Monasteries. Convents. Abbeys.**
.8 **Mortuary. Cemetery Chapels. Receiving Vaults. Tombs**
.9 **Other. Y. M. C. A., etc.**

727 Educational and Scientific.

.1 **Schools.**
Study and Recitation Rooms. Not including dormitory or boarding.
.2 **Academies. Seminaries. Boarding Schools.**
.3 **Colleges. Universities.**
.4 **Professional and Technical Schools. Law, Theology, etc.**
.5 **Laboratories; Physical, Chemical** see 542.1, **Biological, etc. Zoölogical and Botanic Gardens** see also 590.7 and 580.7.
.6 **Museums. Herbariums** see 580.7.
.7 **Art Galleries. Studios.**
.8 **Libraries.** See 022, Library Buildings.
.9 **Other. Learned Societies, etc.**

728 Residences.

.1 **Tenement Houses.**
.11 City Homes of Poor.
.12 Country "
.13 Cités Ouvrières.
.2 **Apartment Houses. Flats. Family Hotels.**
.3 **City Houses. Mansions. Palaces.**
.31 Between party-walls. Stone.
.32 " " Brick.
.33 " " Partly wood.
.34 Semi-detached, including end houses in city blocks. Stone.
.35 " " " Brick.
.36 " " " Partly wood.
.37 Detached. Stone.
.38 " Brick.
.39 " Partly wood.
.4 **Club Houses. Buildings for Secret Societies.**
.5 **Hotels. Inns.**
.51 City Hotels.
.52 Summer Resorts.
.53 Country Inns.
.6 **Village and Country Homes.**
.61 Village Dwellings. On small lots.
.62 Stone.
.63 Brick.
.64 Concrete or stucco.
.65 Part masonry, part wood.
.66 All wood.
.67 Farm Houses.
.68 Laborers' Cottages.
.7 **Seaside and Mountain Cottages. Chalets.**
.8 **Country Seats.**
.81 Castles.
.82 Chateaux.
.83 Manor Houses.
.84 Villas.

728.9 **Out-Buildings.**

.91 Porter's Lodges.
.92 Servants' Quarters.
.93 Kitchens and Laundries.
.94 Stables. Carriage Houses.
.95 Barns. Granaries.
.96 Dairies.
.97 Ice Houses.
.98 Conservatories. Green Houses. Graperies.
.99 Other.

729 Architectural Design and Decoration.

.1 **The Elevation.**

.11 Composition.
.12 Distribution.
.13 Proportion.
.14 Light and Shade.
.15 Perspective effect.
.16
.17
.18
.19

For projection of shadows and graphics of light and shadow see 515.63 and 515.7.

.2 **The Plan.**

.21 Elements required.
.22 Distribution.
.23 Proportion.
.24
.25
.26
.27
.28
.29

.3 **Elementary Forms.** For construction of these forms see 721.

.31 Walls. Mouldings. Cornices.
.32 Piers, Columns, Pilasters, Pedestals and the Orders. Colonnades.
.33 Arches and Arcades.
.34 Vaults and Domes.
.35 Roofs. Spires. Dormers.
.36 Towers.
.37 Gables and Pediments.
.38 Doors and Windows. Bays. Oriels.
.39 Stairs and Balustrades. See also 515.83, Stereotomy; 694.8, Building.

.4 **Painted Decoration.**

See also 729.7. Mosaic.

.41 Vegetable forms.
.42 Animal forms.
.43 Grotesque forms.
.44 Conventional and Geometric Forms.
.45 Painted Moldings.
.46 Painted Friezes and Panels.
.47 Painted Columns and Pilasters.
.48 Painted Ceilings and Vaults.
.49 Painted Walls.

729.5 **Decoration in Relief.** For Bas Relief and Figure Carving see 730.

.51 Vegetable forms.
.52 Animal forms.
.53 Grotesque forms.
.54 Conventional and Geometric forms.
.55 Carved Moldings.
.56 Carved Friezes and Panels.
.57 Carved Columns and Pilasters.
.58 Carved Ceilings and Vaults.
.59 Other Carved Ornament.

.6 **Incrustation and Veneering.**

.61 Of External Walls (in brick, stone, or marble, tiles, etc.).
.62 Of Interiors.
.63 Intarsia and Inlay.
.64 Niello-work.
.65 Enamel Decoration.
.66
.67
.68
.69

.7 **Mosaic.**

.71 Mosaic Ceilings.
.72 Mosaic Walls.
.73 Mosaic Floors.
.74 Other Mosaic designs.
.75
.76
.77
.78
.79

.8 **Stained Glass Design.** For technical processes see 666.1; for history see 748.

.81 Geometric Windows.
.82 Medallion Windows.
.83 Canopy Windows.
.84 Figure Windows.
.85 Mosaic Windows.
.86 Other kinds of stained glass.
.87
.88
.89

.9 **Architectural Accessories and Fixed Furniture.**

.91 Altars.
.92 Pulpits. Tribunes.
.93 Dais. Thrones.
.94 Buffets.
.95 Mantels. Overmantels.
.96 Screens. Rood Screen. Reredos.
.97
.98
.99

730 Sculpture.

731 Materials and Methods.

732 Ancient.

733 Greek and Roman.

734 Medieval.

735 Modern.

736 Carving. Seals. Dies. Gems. Cameos.

737 Numismatics. Coins. Medals.

738 Pottery. Porcelain. (as porcelain decorations also)

739 Bronzes. Brasses. Bric-a-brac.

740 Drawing. Decoration. Design.

741 Free-hand. Crayon. Sketching from Nature. Caricatures. Cartoons.

Collections on any subject go with that subject with reference from 741.

742 Perspective. See also 515.6.

743 Art Anatomy. Life School.

744 Mathematical and Scientific Drawing. See 515.

745 Ornamental Design. Woven Fabrics. Carpets. Wall Paper, etc.

746 Art Needlework. Fancy Work.

747 Interior Decoration. Distemper. Fresco. Polychrome.

748 Stained and Iridescent Glass. For Leading, see 698.5.

749 Artistic Furniture. Fireplaces. Frames, etc.

750 Painting.

751 Materials and Methods.

752 Color. See 535.6, Optics.

753 Epic. Mythic. Idealistic. See 759.3, German School.

754 Genre. Still Life. See 759.4, French; and 759.9, Belgian.

755 Religious. Ecclesiastic. See 759.5, Italian; and 759.6, Spanish.

756 Historical. Battle Scenes.

757 Portrait.

758 Landscape and Marine. Animals. Flowers.

759 Various Schools of Painting.

1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other Schools.

760 Engraving.

761 Wood.

762 Copper and Steel.

763 Lithography.

764 Chromolithography.

765 Line and Stipple.

766 Mezzotint and Aquatint.

767 Etching. Dry Point.

768 Bank Note and Machine.

769 Collections of Engravings.

770 Photography.

771 Materials. Photographic Chemistry.

772 Silver Processes. Daguerreotype. Talbotype. Collodion Process. Ambrotype, etc. Dry-Plate Processes.

773 Gelatine and Pigment Processes. Woodburytype. Carbon Process. Lambertype. Autotype, etc.

774 Gelatine and Printer's Ink Processes. Albertype. Heliotype. Artotype, etc.

775 Photo-lithography, etc.

776 Photo-zincography, etc.

777 Photo-engraving and Photo-electrotyping.

778 Special Applications. See 522.63, Astronomy. See 578, Microscopy.

779 Collections of Photographs.

780 Music.

.1, Philosophy and Æsthetics of Music; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Conservatories; .8, Polygraphy, Libraries; .9, History, divided by countries, like 930–999. All heads include both the music itself and everything about it: Score, Libretto, History, Criticism, etc.

781 Theory of Music.

.1 Mathematical and Physical.

.2 Elementary and General.

.3 Harmony. Thoroughbass.

.4 Counterpoint.

.5 Musical Form.

.6 Composition and Instrumentation.

.7 Oriental Theories and Forms. Russian Music.

.8 Ancient Grecian Theories, Modes, and Forms.

.9

782 Dramatic Music.

.1 Grand Opera.

.2 Epic. Wagnerian.

.3 Other German Grand Opera.

.4 French Grand Opera.

.5 Italian Grand Opera.

.6 Comic and Satirical.

.7 Opera Bouffe.

.8 Operettas and Cantatas. See 783.4.

.9 Pantomimes. Masks, etc.

783 Sacred Music. See 245, Hymnology, Sacred Poetry for hymns alone; if with tunes they go in 783.9; 786.8, Organ; 246.7–8, Evangelistic use and Eucharistic music; 264.2, Public Worship.

.1 Organ and Orchestral. Accompaniment.

.2 Cathedral Services. Masses. Vespers, etc.

.21, Mass. Communion Services; .22, Common of the Mass; Kyrie, Gloria in Excelsis, Credo, Benedictus, Agnus Dei; .23, Proper of the Season; Offertory, Sequence, Gradual, Tract; .24, Choral Service; Antiphonal, Responsive; .25, Plain Song; .26, Litanies; .27, Lenten and Penitential; Good Friday, "Reproaches"; .28, Festival; Christmas, Easter, etc.; .29, Processional. Recessional.

.3 Oratorio. Passion Music.

.4 Anthem. Motet. Sacred Cantata. Polyphonic School, Palestrina. 16th Century.

.5 Chant. Gregorian. Anglican.

.6 Chorale. Tune. Carol.

.7 Evangelistic. Mission. Revival. Sunday School.

.8 Choir. Men and Boys. Quartet. Chorus.

.9 Congregational Singing. Psalmody. Hymnody.

784 Vocal Music.

.1 Glee. Madrigal. Round. Catch.

.2 Aria. Cavatina. Recitative. e. g. in Oratorio, Mass, Opera.

.3 Ballad and Song. Romantic. Idyllic. Sentimental. e. g. Modern German.

.4 Popular Ballads. Volkslied. e. g. Irish, Scotch, etc.

.5 Festival. e. g. Sængerbund. Eisteddfod. Competitive.

.6 College, Society Songs, and Choruses.

.7 Negro Minstrelsy. Plantation Songs.

.8 Collected Songs.

.81, Solos; .82, Duets; .83, Trios; .84, Quartets; .85, Other Part Songs; .86, Choruses; .87, Collections for Male Voices; .88, Collections for Female Voices; .89, Other Special Collections.

.9 Vocal Hygiene, Culture, Development, and Methods. Tonic-Sol-Fa.

785 Orchestral Music. For Dramatic Orchestral Music, see 782; Sacred, 783.1.

.1 Symphony. Three or more movements; e. g. Adagio, Andante, Allegro, Allegretto, Scherzo, Finale, etc.

.2 Dramatic, Illustrative, Descriptive, Imitative.
e. g. Mendelssohn's Mid-Summer Night's Dream.

.3 Romantic. Idyllic.

.4 Program Music.

.5 Overture. e. g. Beethoven's "Leonores."

.6 Concerto. Orchestral with Solo Instrument.

.7 Chamber Music.

.8 Suite.

.9 Arrangements. Transcriptions. Pot Pourris.

786 Piano and Organ.

.1 Piano. History.

.2 Manufacture. Tuning. Temperament.

.3 Instruction.

.4 Piano Music. General Collections. For Piano Concerto, see 785.6.

.41 Sonata. Sonatina. Rondo.

.42 Fantasia. Arabesque.

.43 Nocturne. Meditation. Songs without Words. Romantic. Descriptive.

.44 March and March-form. Polonaise. Polka. Mazourka.

.45 Dance-form. National. Classical. Idealized.

.46 Modern Dance Music. Society. Festive.

.47 Etudes. Artistic. For Etudes for Instruction, see 786.3.

.48 Variations. Transcriptions.

.49 Arrangements. Four Hands and more. e. g. Orchestral Music arranged for Piano.

786.5 Organ. History.

.6 Building.

.7 Instruction.

.8 Organ Music. See 783, Sacred Music.

.81 Sonata. .82 Fugue. .83 Preludes. .84 Interludes. .85 Postludes. .86 Offertories. .87 Voluntaries. Improvisation. .88 Organ and Piano. .89 Organ, Piano, and Orchestra.

.9 Cabinet Organ. Melodeon.

787 Stringed Instruments.

Including with each, History, Manufacture, Instruction, Music, etc. Music for two instruments is put with the one most prominent in the composition.

Bowed.

.1 Violin.

.2 Viola.

.3 Violoncello.

.4 Double Bass. Contra Bass.

Plectral.

.5 Harp.

.6 Guitar. Lute. Mandolin, etc.

.7 Banjo.

.8 Zither.

.9 Other Stringed Instruments. Harpsichord.

788 Wind Instruments.

Including with each, History, Manufacture, Instruction, Music, etc.

Brass.

.1 Trumpet. Slide and Valve.

.2 Trombone.

.3 Cornet.

.4 Horns and other Brass Wind Instruments.

.41 French Horn.

.42 Saxhorn.

.43 Saxophone.

.44 Euphonium.

.45 Ophicleide.

.46 Key Bugle.

.47 Valve Bugle.

.48 Bass. Tuba and Contrabass Tuba. Serpent.

.49 Other.

Wood. Flute Group.

.5 Flute. Waldflute. Piccolo. Fife. Flageolet.

Wood. Reed Group.

.6 Clarinet. Bass Clarinet. Bassethorn.

.7 Oboe. D'amore. Da Caccia. Cor Anglais.

.8 Bassoon. Double Bassoon. Bombardon.

.9 Other Reed Wind Instruments. Bagpipe.

789 Percussion and Mechanical Instruments.

Percussion.

.1 Drum.
.2 Cymbals.
.3 Triangle.
.4 Tambourine. Castanets. Bones.
.5 Bells. Chimes. Carillon.
.6 Other Percussion Instruments. Xylophone,

Mechanical.

.7 Orchestrion.
.8 Music Box.
.9 Other Mechanical Instruments.

790 Amusements. For Ethics of amusements, see 175.

791 Public Entertainment.

Concert, Panorama, Circus, Menagerie, Summer Resort, Garden, Rink, Museum, Fair, Festival.

792 Theater. Pantomime. Opera. See also 782, Dramatic music.

793 In-door Amusements.

Private Theatricals, Tableaux, Charades, Dancing.

794 Games of Skill.

Chess, Checkers, Billiards, Bowling, Bagatelle.

795 Games of Chance.

Cards, Dice, Backgammon, Dominoes.

796 Out-door Sports.

Children's Sports, Athletic Sports, Coasting, Skating, Cycling, Quoits, Archery, Croquet, Lawn Tennis.

797 Boating and Ball.

Rowing, Yachting, Base-ball, Foot-ball, Cricket, Polo.

798 Horsemanship and Racing.

799 Fishing, Hunting, Target Shooting.

Literature.

The classification of literature is by *language* not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assigned to individual authors include only their *literary* works of that section and complete works which cannot be divided. Books on other subjects go with their proper subjects, unless a "special library" attracts all the authors' works, lives, etc. An author writing in two periods has all his books put in the one where most of them belong.

800 Literature. General Works.

801 Philosophy. Theories. Literary Æsthetics.

802 Compends. Outlines.

803 Dictionaries. Cyclopedias.

804 Essays. Lectures. Addresses.

805 Periodicals. Magazines. Reviews.

806 Societies. Transactions. Reports, etc.

807 Study and Teaching of Literature.

808 Rhetoric. Treatises. Collections.

Divided .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; see also 784.9, Vocal Culture; .6, Letters, Epistolography; .7, Satire, Humor; .8, Collections too general to go with any one language, e. g. a book of Quotations from many languages.
These heads, and the same under 809, include only works about Poetry, etc., regardless of language.

809 History of Literature in general. Including general histories of books and knowledge: e. g. Hallam's Literature of Middle ages.

Divided like 808. .1, Poetry; .2, Drama; .3, Fiction, etc.

810 American Literature. Includes Canadian English.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on American Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of American Literature.

811 American Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; 09, History of American Poetry.

.1 **Colonial, 1607–1776.**

.11	Sandys, George	1577–1644.
.12	Bradstreet, Anne	1612–1672.
.13	Wigglesworth, Michael	1631–1705.
.14	Green, Joseph	1706–1780.
.15	Livingston, William	1723–1790.
.16	Ferguson, Elizabeth	1739–1801.

.2 **Post-Revolutionary, 1776–1830.**

.21	Trumbull, John	1750–1831.
.22	Dwight, Timothy	1752–1817.
.23	Barlow, Joel	1755–1812.
.24	Freneau, Philip	1752–1832.
.25	Alsop, Richard	1761–1841.
.26	Pierpont, John	1785–1866.
.27	Dana, Richard Henry	1787–1879.
.28	Sprague, Charles	1791–1875.
.29	Minor Poets.	

811.3 **Middle 19th Century, 1830–1861.**

.31	Halleck, Fitz-Greene	1790–1867.
.32	Poe, Edgar Allan	1809–1849.
.33	**Bryant, William Cullen**	1794–1878.
.34	**Longfellow, Henry Wadsworth**	1807–1882.
.35	Read, Thomas Buchanan	1822–1872.
.36	**Whittier, John Greenleaf**	1807–
.37	**Lowell, James Russell**	1819–
.38	Whitman, Walt	1819–
.39		

.4 **Later 19th Century, 1861–**

.41	Stoddard, Richard Henry	1825–
.42	Hayne, Paul Hamilton	1831–86
.43	Stedman, Edmund Clarence	1833–
.44	Winter, William	1836–
.45	Miller, Cincinnatus Hiner, (Joaquin.)	1841–
.46	Taylor, Bayard	1825–1878.
.47		
.48		
.49		

812 American Drama.

.1 **Colonial, 1607–1776.**

.11	Warren, Mercy	1728–1814.
.12	Godfrey, Thomas	1736–1763.
.13		

.2 **Post-Revolutionary, 1776–1830.**

.21	Tyler, Royall	1757–1826.
.22	Dunlap, William	1766–1839.
.23	Hillhouse, James Abraham	1789–1841.
.24	Ingersoll, Charles Jared	1782–1862.
.25		

.3 **Middle 19th Century, 1830–1861.**

.31	Ritchie, Anna Cora Mowatt	1818–1870.
.32	Mathews, Cornelius	1817–89
.33	Boker, George Henry	1823–90
.34		

.4 **Later 19th Century, 1861–**

.41

813 American Fiction.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Brackenridge, Hugh Henry	1748–1816.
.22	Rowson, Susanna	1762–1824.
.23	Brown, Charles Brockden	1771–1810.
.24	**Cooper, James Fenimore**	1789–1851.
.25	Ware, William	1797–1852.
.26	Neal, John	1793–1876
.27		
.28		
.29		

813.3 **Middle 19th Century, 1830–1861.**

.31	Thompson, Daniel Pierce	1795–1868.
.32	Kennedy, John Pendleton	1795–1870.
.33	**Hawthorne, Nathaniel**	1804–1864.
.34	Judd, Sylvester	1813–1853.
.35	Simms, William Gilmore	1806–1870.
.36	Melville, Herman	1819–
.37	Stowe, Harriet Beecher	1812–
.38		
.39		

.4 **Later 19th Century, 1861–**

.41	Alcott, Louisa May	1832–1888.
.42	Eggleston, Edward	1837–
.43	Howells, William Dean	1837–
.44	Aldrich, Thomas Bailey	1836–
.45	Harte, Francis Bret	1839–
.46	James, Henry	1843–
.47	Hawthorne, Julian	1846–
.48	Burnett, Frances Hodgson	1849–
.49	Minor Novelists.	

814 American Essays.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Rush, Benjamin	1745–1813.
.22	Webster, Noah	1758–1843.
.23	Channing, William Ellery	1780–1842.

.3 **Middle 19th Century, 1830–1861.**

.31	Ossoli, Margaret Fuller	1810–1850.	
.32	Giles, Henry	1809–1882.	
.33	Tuckerman, Henry Theodore	1813–1871.	
.34	**Holland, Josiah Gilbert**	1819–1881.	
.35	Whipple, Edwin Percy	1819–1886.	
.36	Emerson, Ralph Waldo	1803–1882.	See also 191.3.
.37			

.4 **Later 19th Century, 1861–**

.41	Burroughs, John	1837–
.42		
.43		
.44		

815 American Oratory.

.1 **Colonial, 1607–1776.**

.11

.12

.2 **Post-Revolutionary, 1776–1830.**

.21	Hamilton, Alexander	1757–1804.
.22	Ames, Fisher	1758–1808.
.23	Wirt, William	1772–1834.
.24	Randolph, John	1773–1833.
.25	Clay, Henry	1777–1852.
.26	Calhoun, John Caldwell	1782–1850.
.27	Webster, Daniel	1782–1852.
.28		
.29		

815.3 **Middle 19th Century, 1830–1861.**

.31	Everett, Edward.	1794–1865.
.32	Choate, Rufus.	1799–1859.
.33	Sumner, Charles.	1811–1874.
.34	Phillips, Wendell.	1811–1884.
.35	Chapin, Edwin Hubbell.	1814–1880.
.36	Beecher, Henry Ward.	1813–1887.

.4 **Later 19th Century, 1861–**

.41

.42

.43

816 American Letters.

Subdivided by periods, like 811.

817 American Satire and Humor.

.1 **Colonial, 1607–1776.**

.11	Ward, Nathaniel.	1570–1653.
.12	Alsop, George.	1638–
.13	Byles, Mather.	1706–1788.
.14	Hopkinson, Francis.	1737–1791.
.15	Peters, Samuel Andrew.	1735–1826.

.2 **Post-Revolutionary, 1776–1830.**

.21	Story, Isaac.	1774–1803.
.22	Fessenden, Thomas Green.	1771–1837.
.23	Paulding, James Kirke.	1779–1860.
.24	**Irving, Washington.**	1783–1859.
.25	Verplanck, Gulian Crommelin.	1786–1870.
.26		
.27		

.3 **Middle 19th Century, 1830–1861.**

.31	Neal, Joseph Clay.	1807–1847.
.32	**Holmes, Oliver Wendell.**	1809–
.33	Shelton, Frederick William.	1814–1881.
.34	Shillaber, B. P. (Mrs. Partington.)	1814–
.35	Saxe, John Godfrey.	1816–87
.36	Cozzens, Frederick Swartout.	1818–1869.
.37	Browne, C. F., (Artemus Ward.)	1834–1867.
.38	Haliburton, Thomas Chandler.	1796–1865.
.39	Minor Satirists and Humorists.	

.4 **Later 19th Century, 1861–**

.41	Warner, Charles Dudley.	1829–
.42	Locke, David Ross, (Nasby.)	1833–88
.43	Burdette, Robert J.	1844–
.44	Clemens, S. L., (Mark Twain.)	1835–
.45	Carleton, William.	1845–
.46	Shaw, Henry W., (Josh Billings.)	1818–1885.
.47		

818 American Miscellany.

.3 **Middle 19th Century, 1830–1861.**

.31	Thoreau, Henry David.	1817–1862.
.32	Mitchell, Donald Grant, (Ik Marvel.)	1822–

820 English Literature.

820.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on English Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

821 English Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; .09, History of English Poetry.

.1 **Early English, 1066–1400.**

.11	Layamon	1150–1207.
.12	Ormin	1187–1237.
.13	Robert of Gloucester	1245–1307.
.14	Minot, Lawrence	1313–1352.
.15	Langland, William	1332–1399.
.16	Barbour, John	1316–1395.
.17	**Chaucer, Geoffrey**	1340–1400.
.18	Gower, John	1325–1408.
.19	Minor Writers.	

.2 **Pre-Elizabethan, 1400–1558.**

.21	Lydgate, John	1369–1461.
.22	Skelton, John	1460–1529.
.23	Dunbar, William	1460–1520.
.24	Douglas, Gavin	1474–1522.
.25	Hawes, Stephen	1483–1509.
.26	Lyndsay, Sir David	1490–1555.
.27	Wyatt, Sir Thomas	1503–1542.
.28	Surrey, Henry Howard, carl of	1517–1547.
.29	Minor Writers.	

.3 **Elizabethan, 1558–1625.**

.31	**Spenser, Edmund**	1553–1599.
.32	Sidney, Sir Philip	1554–1586.
.33	Daniel, Samuel	1562–1619.
.34	Drayton, Michael	1563–1631.
.35	Davies, John	1569–1626.
.36	Drummond, William	1585–1649.
.37	Fletcher, Giles and Phineas	1585–1650.
.38	Herbert, George	1593–1632.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625–1702.**

.41	Suckling, Sir John	1609–1642.
.42	Crashaw, Richard	1616–1650.
.43	Herrick, Robert	1591–1674.
.44	Waller, Edmund	1605–1687.
.45	Lovelace, Richard	1618–1658.
.46	Cowley, Abraham	1618–1667.
.47	**Milton, John**	1608–1674.
.48	**Dryden, John**	1631–1700.
.49	Minor Writers.	

821.5 **Queen Anne,** Early 18th Century, **1702–1745.**

.51	Prior, Matthew	1664–1721.	
.52	Parnell, Thomas	1679–1717.	
.53	**Pope, Alexander.**	1688–1744.	See also 827.5.
.54	Ramsay, Allan	1686–1758.	
.55	Young, Edward	1684–1765.	
.56	Thomson, James	1700–1748.	
.57	Collins, William	1721–1759.	
.58	Shenstone, William	1714–1763.	
.59	Minor Writers.		

.6 **Later 18th Century,** Pre-Revolutionary, **1745–1800.**

.61	Gray, Thomas	1716–1771.	
.62	Akenside, Mark	1721–1770.	
.63	Chatterton, Thomas	1752–1770.	
.64	Goldsmith, Oliver	1728–1774.	See also 823.64 and 824.66.
.65	Cowper, William	1731–1800.	
.66	Macpherson, James	1738–1796.	
.67	**Burns, Robert**	1759–1796.	
.68	White, Henry Kirke	1785–1806.	
.69	Minor Writers.		

.7 **Early 19th Century,** Post-Revolutionary, **1800–1837.**

.71	Wordsworth, William	1770–1850.	
.72	Coleridge, Samuel Taylor	1772–1834.	
.73	Southey, Robert	1774–1843.	
.74	Scott, Sir Walter	1771–1832.	See also 823.73.
.75	Moore, Thomas	1779–1852.	
.76	Byron, Geo. Gordon Noel	1788–1824.	
.77	Shelley, Percy Bysshe	1792–1822.	
.78	Keats, John	1795–1821.	
.79	Minor Writers.		

.8 **Victorian Period,** 1837–

.81	Tennyson, Alfred	1809–
.82	Browning, Elizabeth Barrett	1809–1861.
.83	Browning, Robert	1812–89
.84	Rossetti, Dante Gabriel	1828–1882
.85	Morris, William	1834–
.86	Swinburne, Algernon Charles	1837–
.87		
.88		
.89	Minor Writers.	

822 English Drama.

.1 **Early English, 1066–1400.**

.11	Chester Plays.	
.12	Coventry Plays.	
.13	Townley Plays.	

.2 **Pre-Elizabethan, 1400–1558.**

.21	Heywood, John	1506–1565.
.22	Udall, Nicholas	1505–1564.
.23	Bale, John	1495–1563.

.3 **Elizabethan, 1558–1625.**

.31	Greene, Robert	1561–1592.
.32	Marlowe, Christopher	1564–1593.
.33	**Shakspere, William**	1564–1616.
.34	**Jonson, Ben**	1574–1637.
.35	**Beaumont, Francis and Fletcher, John**	1576–1625.
.36	Webster, John	1582–1652.
.37	Massinger, Philip	1584–1640.
.38	Ford, John	1586–1639.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625–1702.**

.41	Davenant, Sir William	1605–1668.
.42	Etherege, Sir George	1637–1688.
.43	Crowne, John	1644–1699.
.44	Wycherly, William	1640–1715.
.45	Otway, Thomas	1651–1685.
.46	**Congreve, William**	1670–1729.
.47	Vanbrugh, Sir John	1666–1726.
.48	Farquhar, George	1678–1707.
.49	Minor Writers.	

.5 **Queen Anne,** Early 18th Century, **1702–1745.**

.51	Dennis, John	1657–1734.
.52	Southerne, Thomas	1660–1746.
.53	Centlivre, Mrs. Susannah (Freeman)	1668–1723.
.54	Cibber, Colley	1671–1757.
.55	Rowe, Nicholas	1674–1718.
.56	Gay, John	1688–1732.
.57	Lillo, George	1693–1739.
.58		
.59	Minor Writers.	

.6 **Later 18th Century, 1745–1800.**

.61	Garrick, David	1716–1779.	
.62	Foote, Samuel	1721–1777.	
.63	Colman, George, the elder	1732–1794.	
.64	Home, John	1724–1808.	
.65	Cumberland, Richard	1732–1811.	
.66	**Sheridan, Richard Brinsley**	1751–1816.	See also 825.64.
.67	Inchbald, Mrs. Elizabeth (Simpson)	1753–1821.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Baillie, Joanna	1762–1851.
.72	Knowles, James Sheridan	1784–1862.

.8 **Victorian Period, 1837–**

823 English Fiction.

.1 **Early English, 1066–1400.**

.2 **Pre-Elizabethan,** (More's Utopia,) **1400–1558.**

.3 **Elizabethan,** (Lyly's Euphues,) **1558–1625.**

.4 **Post-Elizabethan, 1625–1702.**

.41	Harrington, James	1611–1677.	
.42	**Bunyan, John**	1628–1688.	
.43	Mackenzie, George	1636–1691.	
.44	Behn, Aphra	1640–1689.	

.5 **Queen Anne, 1702–1745.**

.51	DeFoe, Daniel	1661–1731.	
.52	Fielding. Henry	1707–1754.	

.6 **Later 18th Century, 1745–1800.**

.61	Richardson, Samuel	1689–1761.	
.62	Sterne, Laurence	1713–1768.	
.63	Smollett, Tobias George	1721–1771.	
.64	**Goldsmith, Oliver**	1728–1774.	See also 821.64 and 824.66.
.65	Mackenzie, Henry	1745–1831.	
.66	Arblay, Frances (Burney), madame d'	1752–1840.	
.67			
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Lewis, Matthew Gregory	1775–1818.	
.72	Edgeworth, Maria	1767–1849.	
.73	**Scott, Sir Walter**	1771–1832.	See also 821.74.
.74	Austen, Jane	1775–1817.	
.75	Porter, Jane	1776–1850.	
.76	Peacock, Thomas Love	1785–1866	
.77	Galt, John	1779–1839.	
.78	Marryat, Frederick	1792–1848.	
.79	Minor Writers.		

.8 **Victorian Period, 1837–**

.81	Bronté, Charlotte	1816–1855.	
.82	**Thackeray, William Makepeace**	1811–1863.	
.83	**Dickens, Charles**	1812–1870.	
.84	Lytton, Edw. Geo. Bulwer, 1st baron	1803–1873.	
.85	Kingsley, Charles	1819–1875.	
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–1881.	
.87	Trollope, Anthony	1815–1882.	
.88	**Eliot, George**	1819–1880.	
.89	Minor Writers.		

824 English Essays.

.3 **Elizabethan,** (Bacon,) **1558–1625.**

.4 **Post-Elizabethan,** (Locke), **1625–1702.**

.5 **Queen Anne, 1702–1745.**

.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713.	
.52	**Addison, Joseph**	1672–1719.	
.53	Steele, Sir Richard	1671–1729.	
.54	Budgell, Eustace	1686–1737.	
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.6 **Later 18th Century, 1745–1800.**

.61	Moore, Edward	1712–1757.	
.62	Kames, Henry Home, lord	1696–1782.	
.63	**Johnson, Samuel**	1709–1784.	
.64	Hume, David	1711–1776.	See also 192.4.
.65	Hawkesworth, John	1715–1773.	
.66	Goldsmith, Oliver	1728–1774.	See also 821.64 and 823.64.
.67	Gibbon, Edward	1737–1794.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Mackintosh, Sir James	1765–1832.	
.72	Smith, Sydney	1771–1845.	
.73	Jeffrey, Francis, lord	1773–1850.	
.74	Brougham, Henry, 1st baron	1778–1868.	
.75	**Lamb, Charles**	1775–1834.	
.76	Hazlitt, William	1778–1830.	
.77	Hunt, Leigh	1784–1859.	
.78			
.79	Minor Writers.		

.8 **Victorian Period, 1837–.**

.81	De Quincey, Thomas	1785–1859.	
.82	Carlyle, Thomas	1795–1881.	
.83	Macaulay, Thomas Babington, 1st baron	1800–1859.	
.84	Helps, Sir Arthur	1817–1875	
.85	Arnold, Matthew	1822–88	
.86	Ruskin, John	1819–	
.87			
.88			
.89	Minor Writers.		

825 English Oratory. For Speakers see 808.5.

Subdivided by periods like 821.

.6 Later 18th Century, 1745–1800.

.61 Chatham, William Pitt, 1st earl of 1708–1778.
.62 **Burke, Edmund** 1729–1797.
.63 Fox, Charles James 1749–1806.
.64 **Sheridan, Richard Brinsley** 1751–1816. See also 822.66.
.65 Grattan, Henry 1750–1820.
.66 Pitt, William 1759–1806.

826 English Letters.

Subdivided by periods like 821.

.2 Pre-Elizabethan, (Paston Letters,) **1400–1558.**

.5 Queen Anne, 1702–1745.

.51 Montagu, Lady Mary (Pierrepont) Wortley 1690–1762.
.52 Chesterfield, Philip Dormer Stanhope, 4th earl of 1694–1773.
.53

.6 Later 18th Century, 1745–1800.

.61 Orford, Horace Walpole, 4th earl of 1717–1797.
.62 Montagu, Mrs. Elizabeth (Robinson) 1720–1800.

827 English Satire and Humor.

.2 Pre-Elizabethan, 1400–1558.

.21 Barclay, Alexander 1475–1552.

.3 Elizabethan, 1558–1625.

.31 Gascoigne, George 1537–1577.
.32 Harington, Sir John 1561–1612.
.33 Hall, Joseph 1574–1656.
.34 Marston, John 1575–1634.
.35 Donne, John 1573–1631.
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.4 Post-Elizabethan, 1625–1702.

.41 Wither, George 1588–1667.
.42 **Butler, Samuel** 1612–1680
.43 Marvell, Andrew 1620–1678.
.44 D'Urfey, Thomas 1625–1723.
.45 Oldham, John 1653–1683.
.46 Brown, Thomas 1663–1704.
.47 King, William 1663–1712.
.48 Garth, Sir Samuel 1665–1719.
.49 Minor Writers.

827.5 Queen Anne, 1702–1745.

.51 Ward, Edward 1667–1731.
.52 **Swift, Jonathan** 1667–1745.
.53 Mandeville, Bernard de 1670–1733.
.54 Arbuthnot, John 1675–1735.
.55 **Pope, Alexander** 1688–1744. See also 821.53.
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.6 Later 18th Century, 1745–1800.

.61 Churchill, Charles 1733–1765.
.62 Amory, Thomas 1691–1788.
.63 Whitehead, Paul 1710–1774.
.64 Junius 1679–1772.
.65 Wolcott, John 1738–1819.
(pseud. Peter Pindar.)
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.7 Early 19th Century, 1800–1837.

.71 Gifford, William 1757–1826.
.72 Hood, Thomas 1798–1845.
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.8 Victorian, 1837–

.81 Jerrold, Douglas 1803–1857.
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828 English Miscellany.

Anecdotes, Ana, Epigrams, Quotations, etc., if illustrative of any special subject (e. g., biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For Riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon Literature.

.1 Poetry.
.2 Cædmon.
.3 Beowulf.
.4 Cynewulf.
.5 Homilies and Religious.
.6 Ælfric.
.7 Alfred the Great.
.8 Miscellaneous.
.9 Historical and Biographical.

830 German Literature.

830.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on German Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

831 German Poetry.

.02, Dramatic; .03, Romantic and Eoic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of German Poetry.

.1 Before the Crusades, –1150.

.11 "Hildebrandslied."
.12 Otfried.
.13 "Ludwigslied."
.14 "Muspilli."

.2 Middle High, 1150–1300.

.21 "Nibelungenlied."
.22 "Gudrun," and minor folk epics.
.23 Heinrich von Veldeke –1200. See also 839.311 2.
.24 Wolfram von Eschenbach.
.25 Gottfried von Strassburg.
26 Hartmann von Aue 1170–1220.
.27 Walther von der Vogelweide 1170–1230.
.28 Ulrich von Lichtenstein 1199–1276.
.29 Minor Writers.

.3 Period of Decline, 1300–1517.

31 Horneck, Ottokar von.
32 Hadamar von Laber.
33 Hermann von Sachsenheim –1458.
.34 Büheler, Hans. "Die sieben weisen Meister," 1414–
.35 Kaspar von der Röhn. "Das Heldenbuch."
.36 "Theuerdank."
.37 "Die Haimonskinder."
.38 Mastersingers.
.39 Minor Writers.

.4 Reformation. New High, 1517–1625

.41 Agricola, Martin 1486–1556.
42 Waldis, Burkard 1490–1558.
.43 Alberus, Erasmus 1500–1553.
.44 **Sachs, Hans** 1494–1576.
.45 Ringwaldt, Bartholomäus 1530–1599.
.46 Rollenhagen, Georg 1542–1609.
.47 Andreä, Johann Valentin 1586–1654.

.5 Period of Imitation, 1625–1750.

[The Silesian Schools.]

.51 Opitz von Boberfeld, Martin 1597–1639.
.52 Flemming, Paul 1609–1640.
.53 Logau, Friedrich von 1604–1655.
.54 Gerhardt, Paul 1607–1676.
.55 Hofmannswaldau, Christian Hofmann von 1618–1679.
.56 Zesen, Philipp von 1619–1689.
.57 Brockes, Barthold Heinrich 1680–1747.
.58 Bodmer, Johann Jakob 1698–1783.
.59 Minor Writers.

831.6 Classic Period, 1750–1830.

[For Göthe and Schiller, see 832.6.]

.61 Gellert, Christian Fürchtegott 1715–1769.
.62 **Klopstock, Friedrich Gottlieb** 1724–1803.
.63 Bürger, Gottfried August 1748–1794.
.64 **Herder, Johann Gottfried von** 1744–1803.
65 Voss, Johann Heinrich 1751–1826.
66 Körner, Karl Theodor 1791–1813.
67 Hölderlin, Johann Christian Friedrich 1770–1843.
68 Platen Hallermünde, August, graf von 1796–1835.
.69 Minor Writers.

.7 Post-Classic Period, 1830–1856.

.71 Arndt, Ernst Moritz 1769–1860.
.72 Eichendorff, Joseph, freiherr von 1788–1857.
.73 Uhland, Johann Ludwig 1787–1862.
.74 Rückert, Friedrich 1789–1866.
.75 **Heine, Heinrich** 1799–1856.
.76 Niembsch von Strehlenau, Nikolaus 1802–1850.
.77 Auersperg, Anton Alexander, graf von [Anastasius Grün.] 1806–1881.
.78 Freiligrath, Ferdinand 1810–1876.
.79 Minor Writers.

.8 Later 19th Century, 1856–

.81 Schefer, Leopold 1784–1862.
.82 Kinkel, Johann Gottfried 1815–1882.
.83 Geibel, Emanuel 1815–1884.
.84 Bodenstedt, Friedrich Martin 1819–
.85
.86
.87
.88
.89 Minor Writers.

832 German Drama.

.5 Period of Imitation, 1625–1750.

.51 Gryphius, Andreas 1616–1664.
.52 Lohenstein, Daniel Caspar 1635–1683.
.53 Weise, Christian 1642–1708.
.54 Gottsched, Johann Christoph 1700–1776.
.55 Gottsched, Luise Adelgunde Victorie (Culmus) 1713–1762.

.6 Classic Period, 1750–1830.

.61 **Lessing, Gottlob Ephraim** 1729–1781.
.62 **Göthe, Johann Wolfgang von** 1749–1832.
.63 **Schiller, Johann Christoph Friedrich** 1759–1805.
.64 Klinger, Friedrich Maximilian 1753–1831.
.65 Iffland, August Wilhelm 1759–1814.
.66 Kotzebue, August Friedrich Ferdinand von 1761–1819.
.67 Werner, Friedrich Ludwig Zacharias 1768–1823.
.68 Kleist, Heinrich Bernt Wilhelm von 1777–1811.
.69 Minor Writers.

832.7 **Post-Classic Period, 1830–1856.**

- .71 Grabbe, Christian Dietrich 1801–1836.
- .72 Griepenkerl, Wolfgang Robert 1810–1836.
- .73 Grillparzer, Franz 1791–1872.
- .74 Birch-Pfeiffer, Charlotte 1800–1868.
- .75 Münch-Bellinghausen, Eligius Franz Joseph. [Friedrich Halm.] 1806–1866.
- .76 Laube, Heinrich 1806–84
- .77 Hebbel, Friedrich 1815–1863.
- .78 Gutzkow, Karl Ferdinand 1811–1878.
- .79 Minor Writers.

.8 **Later 19th Century, 1856–**

- .81 Benedix, Julius Roderich 1811–1873.
- .82 Mosenthal, Salomon Hermann 1821–1877.
- .83 Brachvogel, Albert Emil 1824–1878.
- .84 Gottschall, Karl Rudolph 1823–
- .85 Lindau, Paul 1839–
- .89 Minor Writers.

833 German Fiction.

.5 **Period of Imitation, 1625–1750.**

- .51 Buchholtz, Andrew Heinrich 1607–1671.
- .52 Grimmelshausen, Hans Jakob Christoffel von 1625–1676.
- .53 Anselm, Heinrich 1653–1697.
- .54 "Robinsonaden."
- .55 "Der Neue Amadis."

.6 **Classic Period, 1750–1830.**

- .61 Wieland, Christoph Martin 1733–1813.
- .62 Richter, Jean Paul Friedrich 1763–1825.
- .63 Hardenberg, Friedrich von [Novalis] 1772–1801.
- .64 Hoffmann, Ernst Theodor Wilhelm 1776–1822.
- .65 La Motte Fouqué, Friedrich H; C; 1777–1843.
- .66 Arnim, Ludwig Achim von 1781–1831.
- .67 Hauff, Wilhelm 1802–1827.
- .68 Chamisso, Adelbert von 1781–1838.
- .69 Minor Writers.

.7 **Post-Classic Period, 1830-1856.**

- .71 Zschokke, Johann Heinrich Daniel 1771–1848.
- .72 Brentano, Clemens 1778–1842.
- .73 Tieck, Ludwig 1773–1853.
- .74 Postl, Karl [Charles Sealsfield] 1793–1864.
- .75 Häring, Wilhelm [Wilibald Alexis] 1798–1871.
- .76 Hahn-Hahn, Ida, gräfin von 1805–1880.
- .77 Gerstäcker, Friedrich 1816–1872.
- .78 Hackländer, Friedrich Wilhelm 1816–1877.
- .79 Minor Writers.

.8 **Later 19th Century, 1856–**

- .81 Auerbach, Berthold 1815–1882.
- .82 Freytag, Gustav 1816–
- .83 Scheffel, Joseph Viktor von 1826–
- .84 Spielhagen, Friedrich 1829–
- .85 Heyse, Paul Johann Ludwig 1830–
- .86 Ebers, Georg 1837–
- .89 Minor Writers.

834 German Essays. Subdivided by periods like 831.

835 German Oratory. " "

836 German Letters. " "

837 German Satire and Humor.

.2 **Middle High. Minnesingers, 1150–1300.**

- .21 [Stricker, Der.] "Der Pfaffe Amis" und "Beispiele."
- .22 "Salomon und Morolf."

.3 **Period of Decline, 1300–1517.**

- .31 "Reineke Vos." See also 839.371.
- .32 Brant, Sebastian 1458–1521.

.4 **Reformation. New High, 1517–1625.**

- .41 Murner, Thomas "Tyll Eulenspiegel." 1475–1537.
- .42 Fischart, Johann 1550–1589.

.5 **Period of Imitation, 1625–1750.**

- .51 Moscherosch, Johann Michael 1601–1669.
- .52 Rachel, Joachim 1618–1669.
- .53 Wernicke, Christian 1660–1720.
- .54 Liscow, Christian Ludwig 1701–1760.

.6 **Classic Period, 1750–1830.**

- .61 Rabener, Gottlieb Wilhelm 1714–1771.
- .62 Blumauer, Aloys 1755–1798.

838 German Miscellany. See 828, note.

839 Minor Teutonic Literatures.

Subdivided by form, Poetry, Drama, etc., like 830.

.1 **Low German.**

.2 **Frisian. Old Saxon.**

.3 **Dutch Literature. Flemish.**

.31 Dutch Poetry.

.311 **Middle Ages.** 1200–1450.

[.1, Jacob van Maerlant 1235–1291; (.2, Heinrije van Veldeke 1200, see 831.23;) .3, Jan I. van Brabant 1250–1294; .4, Melis Stoke 1310; .5, Dirc Potter 1428.]

.312 **Chambers of Rhetoric.** 1450–1600.

[.1, Antonius de Rovere 1482; .2, Anna Bijns 1500; .3, Matthijs de Castelein 1488–1548; .4, Cornelis Everaert 1550; .5, Jan Baptist Houwaert 1533–1599; .6, Dirk Volkerszoon Coornhert 1522–1590; .7, Philipp Marnix 1538–1598; .8, Cornelis van Ghistele 1600; .9, Minor Writers.]

.313 **Period of the Republic.** 1600–1700.

[.1, **Jacob Cats,** 1577–1660; .2, **Joost van der Vondel** 1587–1679; .3, Marie Tesselschade Visscher 1594–1649; .4, **Constantijn Huygens** 1596–1687; .5, Reyer Anslo 1626–1669; .6, Geraert Brandt 1626–1685; .7, Jan Antoniszoon van der Goes (Antonides) 1647–1684; .9, Minor Writers.]

.314 **Poetical Societies.** 1700–1800.

[.1, Lucas Rotgans 1654–1710; .2, Hubert Corneliszoon Poot 1689–1733; .3, Arnold Hoogvliet 1687–1763; .4, Sybrand Feitama 1694–1758; .5, Willem van Haren 1710–1768; .6, Jacob Bellamy 1757–1786; .7, Hieronymus van Alphen 1746–1803; .9, Minor Writers.]

.315 **Modern Period.** 1800–

[.1, Willem Bilderdijk 1756–1831; .2, Jan Frederik Helmers 1767–1813; .3, Cornelis Loots 1765–1834; .4, Hendrik Tollens 1780–1856; .5, Isaac da Costa 1798–1860; .6, Jan Jacob Lodewijk ten Kate 1819–; .9, Minor Writers.]

839.32 Dutch Drama.

.323 **Period of the Republic.** 1600–1700.

[.1, **Gerbrand Adriaenszoon Bredero** 1585–1618; .2, **Corneliszoon Hooft** 1581–1647; .3, Samuel Costa 1580–1650; .4, Jan Vos 1620–1667; .5, Guillelmus Ogier 1619–1689; .6, Joachim Oudaan 1628–1692; .9, Minor Writers.]

.324 **Poetical Societies.** 1700–1800.

[.1, Pieter Langendijk 1683–1756; .2, Andries Pels; .3, Balthasar Huydecoper 1695–1778; .4, Onno Zwier van Haren 1713–1779; .5, Jan Nomsz 1738–1803; .9, Minor Writers.]

.325 **Modern Period.** 1800–

[.1, Samuel Iperuszoon Wiselius 1769–1845; .2, Helvetius van den Bergh 1795–1865; .3, Hendrik Jan Schimmel 1824–.]

839.33 Dutch Fiction.

.334 **Poetical Societies.** 1700–1800.

[.1, Elisabeth Bekker Wolff 1738–1804; .2, Agatha Deken 1741–1804; .3, Rhijnvis Feith 1753–1824.]

335 **Modern Period.** 1800–

[.1, Adriaan Loosjes 1761–1818; .2, Jacob Vosmaer 1783–1834; .3, Jan Frederik Oltmans 1806–1854; .4, Jacob van Lennep 1802–1868; .5, **Hendrik Conscience** 1812–; .6, Anna Louisa Geertruida Bosboom-Toussaint 1812–.]

839.34 Dutch Essays.

.344 **Poetical Societies.** 1700–1800.

[Justus Van Effen 1684–1735.]

.345 **Modern Period.** 1800–

[.1, Johannes Henricus van der Palm 1763–1840; .2, Reinier Cornelis Bakhuizen van den Brink 1810–1865; 3, Everhardus Johannes Potgieter 1808–1875; .4, Nicolas Beets 1814–; .5, Coenraad Busken Huet 1826–.]

839.37 Dutch Satire and Humor.

.371 **Middle Ages.** 1200–1450.

[**Reinaert** (van den vos Reinaerde) see 837.31.]

.374 **Poetical Societies.** 1700–1800.

[Arend Simonszoon Fokke 1755–1812.]

839.38 Dutch Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.381 **Middle Ages.** 1200–1450.

[Jan van Boendale (Jan de Clerc), *Chronicles*, 1280–1365.]

.384 **Poetical Societies.** 1700–1800.

[Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–1773.]

.4 Platt Deutsch.

.5 Scandinavian.

.6 Old Norse. Icelandic. Faroese.

839.7 Swedish Literature.

.71 Swedish Poetry.

.711 **Middle Ages.** 1200–1520.

[.1, Nicolaus Hermanni 1391; .2, Bishop Tomas 1443; .3, Ericus Olai 1486; .4, Ballads (Folkvisor).]

.712 **Reformation.** 1520–1640.

[.1, Olaus Petri 1497–1552; .2, Laurentius Petri 1499–1573.]

.713 **Age of Stjernhjelm.** 1640–1740.

[.1, **Georg Stjernhjelm** 1598–1672; .2, Lars Johansson (Lucidor) 1640–1674; .3, Haquin Spegel 1645–1714; .4, Israel Holmström 1660–1708; .5, Gunno Eurelius Dahlstjerna 1661–1709; .6, Johan Runius 1679–1713; .7, Jacob Frese 1691–1729; .8, Samuel von Triewald 1688–1743; .9, Minor Writers.]

.714 **Age of Dalin.** 1740–1780.

[.1, Olof Carelius 1758; .2, **Olof von Dalin** 1708–1763; .3, Hedvig Charlotta Nordenflycht 1718–1763; .4, Anders Odel 1718–1773; .5, Gustaf Filip Creutz 1729–1785; .6, Gustaf Fredrik Gyllenborg 1731–1808; .7, Olof Bergklint 1733–1805; .9, Minor Writers.]

.715 **Age of Gustavus.** 1780–1800.

[.1, **Karl Mikael Bellman** 1740–1795; .2, Johan Henrik Kellgren 1751–1795; .3, Bengt Lidner 1757–1793; .4, Johan Gabriel Oxenstjerna 1750–1818; .5, Tomas Thorild 1759–1808; .6, Anna Maria Lenngren 1754–1817; .7, Karl Gustaf af Leopold 1756–1829; .8, Frans Mikael Franzén 1772–1847; .9, Minor Writers.]

.716 **Modern Period.** 1800–

[.1, Per Henrik Ling 1776–1839; .2, Johan Olof Wallin 1779–1839; .3, **Esaias Tegnér** 1782–1846; .4, Erik Johan Stagnelius 1793–1823; .5, Per Daniel Amadeus Atterbom 1790–1855; .6, Karl Jonas Ludwig Almqvist 1793–1866; .7, Johan Ludvig Runeberg 1804–1877; .8, Karl Vilhelm Böttiger 1807–1879; .9, Minor Writers.]

839.72 Swedish Drama.

.722 **Reformation.** 1520–1640.

[.1, Johan Messenius 1579–1637; .2, Magnus Olai Asteropherus –1647; .3, Andreas Johannis Prytz 1590–1655.]

.723 **Age of Stjernhjelm.** 1640–1740.

[Isak Börk –1701.]

.725 **Age of Gustavus.** 1780–1800.

[.1, Karl Israel Haliman 1732–1800; .2, Gustaf III. (King) 1746–1792; .3, Olof Kexél 1748–1796; .4, Karl Envalisson 1756–1806.]

.726 **Modern Period.** 1800–

[.1, Johan Börjesson 1790–1866; .2, Bernhard von Beskow 1796–1868; .3, August Teodor Blanche 1811–1868; .4, Johan Kristofer Jolin 1818–; .5, Frans Hedberg 1828–; .6, Per Johan Edvard Bäckström 1841–.]

839.73 Swedish Fiction.

.734 **Age of Dalin.** 1740–1780.

[.1, Jakob Henrik Mörk 1714–1763; .2, Jakob Vallenberg 1746–1778.]

.736 **Modern Period.** 1800–

[.1, Sofia Margareta von Knorring 1797–1848; .2, Magnus Jakob Crusenstolpe 1795–1865; .3, **Fredrika Bremer** 1801–1865; .4, Karl Anton Wetterberg (Onkel Adam) 1804–; .5, Emilie Carlén 1807–; .6, Zakris Topelius 1818–; .7, Viktor Rydberg 1829–; .9, Minor Writers.]

839.74 Swedish Essays.

.746 **Modern Period.** 1800–

[.1, Benjamin Karl Henrik Höijer 1767–1812; .2, Lorenzo Hammarsköld 1785–1827; .3, Bernhard Elis Malmström 1816–1865; .4, Karl Julius Lénström 1811–; .5, Gustaf Häkan Jordan Ljunggren 1825–; .6, Karl Rupert Nyblom 1832–.]

839.77 Satire and Humor.

.776 **Modern Period.** 1800–

[.1, Johan Anders Wadmar 1777–1837; .2, Erik Sjöberg (Vitalis) 1794–1828; .3, Kristian Erik Fahlcrantz 1790–1866; .4, Vilhelm August Detlof von Braun 1813–1860; .5, Gunnar Wennerberg 1817–]

839.78 Swedish Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.781 **Middle Ages.** 1200–1520.

[Canon Mattias, *Bible Translation*, –1350; Peder Månsson, *Encyclopedia*, –1534.]

.782 **Reformation.** 1520–1640.

[.1, Peder Andersson Svart, *History*, –1562; .2, Erik Göransson Tegel, *History*, 1580–1636; .3, Ægidius Girs, *History*, 1580–1639; .4, Gustavus Adolphus (King), *History*, 1594–1632.]

.783 **Age of Stjernhjelm.** 1640–1740.

[.1, Olof Rudbeck, *Medicine*, 1630–1702; .2, Urban Hjärne 1641–1724; .3, Johan Peringskjöld, *History*, 1654–1720; .4, Anders Rydelius, *Philosophy*, 1671–1738; .5, Anders Celsius, *Astronomy*, 1701–1744; .6, Emanuel Svedenborg, *Theology*, 1688–1772.]

.784 **Age of Dalin.** 1740–1780.

[.1, Karl Gustaf Tessin, *History*, 1695–1770; .2, Karl von Linné, *Botany*, 1707–1778; .3, Johan Ihre, *Philology*, 1707–1780; .4, Sven Lagerbring, *History*, 1707–1787; .5, Anders Johan von Höpken, *History*, 1712–1789; .6, Olof Celsius, *History*, 1716–1794; .7, Anders af Botin, *History*, 1724–1790; .8, Torbern Olof Bergman, *Chemistry*, 1735–1784; Karl Vilhelm Scheele, *Chemistry*, 1742–1786.]

.786 **Modern Period.** 1800–

[.1, Erik Gustaf Geiger, *History*, 1783–1847; .2, Anders Magnus Strinnholm, *History*, 1786–1862; .3, Anders Fryxell, *History*, 1795–1881; .4, Frederik Ferdinand Carlson, *History*, 1811–.]

839.8 Danish and Norwegian Literature.

.81 Danish and Norwegian Poetry.

.811 **Middle Ages.** 1100–1500.

[.1, Anders Sunesen; .2, Ballads (Kjæmpeviser).]

.812 **Reformation.** 1500–1560.

[Hans Tavsen 1494–1561.]

.813 **Learned Period.** 1560–1700.

[.1, Anders Arrebo 1587–1637; .2, Anders Bording 1619–1677; .3, Peder Syv 1631–1702; .4, Thomas Kingo 1634–1703; .5, Peder Dass 1647–1708; .6, Dorthe Engelbrektsdatter 1635–1716; .7, Sören Ter Kelsen 1661; .8, Jacob Vorm 1642–1693.]

.814 **Age of Holberg.** 1700–1750.

[.1, Jörgen Sorterup 1662–1723; .2, Töger Reenberg 1656–1742; .3, Kristian Falster 1690–1752; .4, Hans Adolph Brorson 1694–1764; .5, Ambrosius Stub 1705–1758; .6, Kristian Frederik Wadskjær 1712–1779.]

839.815 **Period of Enlightenment.** 1750–1800.

[.1, Kristian Braunmann Tullin 1728–1765; .2, **Johannes Evald** 1743–1781; .3, Johan Herman Vessel 1742–1785; .4, Edvard Storm 1749–1794; .5, Kristen Henriksen Pram 1756–1821; .6, Jens Baggesen 1764–1826; .7, Knud Lyne Rahbek 1670–1830; .8, Malte Konrad Bruun 1775–1826; .9, Minor Writers.]

.816 **Modern Period.** 1800–

[.1, **Adam Gottlob Oehlenschläger** 1779–1850; .2, Bernhard Severin Ingemann 1789–1862; .3, Nicolai Frederik Severin Grundtvig 1783–1872; .4, Johannes Carsten Hauch 1790–1871; .5, Henrik Wergeland 1808–1845; .6, Ludvig Bödtcher 1793–1874; .7, Frederik Paludan-Müller 1809–1876; .8, Carl Ploug 1813–; .9, Minor Writers.

839.82 Danish and Norwegian Drama.

.823 **Learned Period.** 1560–1700.

[.1, Hieronimus Justesen Rauch 1539–1607; .2, Hans Kristensen Sthen 1544–1603; .3, Peder Jensen Hegelund 1542–1614; .4, Hans Thomsen Stege; .5, Jens Lönberg 1663–1700.]

.824 **Age of Holberg.** 1700–1750.

[.1, **Ludvig Holberg** 1684–1754.]

.825 **Period of Enlightenment.** 1750–1800.

[.1, Charlotte Dorothea Biehl 1731–1788; .2, Johan Nordal Bruun 1745–1816; .3, Ole Johan Samsöe 1759–1796; .4, Enevold Falsen 1755–1808; .5, Thomas Thaarup 1749–1821; .6, Kristian Levin Sander 1756–1819; .7, Olaf Kristian Olufsen 1764–1827; .8, Peter Andreas Heiberg 1758–1841; .9, Minor Writers.]

.826 **Modern Period.** 1800–

[.1, Caspar Johannes Boye 1791–1853; .2, Johan Ludvig Heiberg 1791–1860; .3, Henrik Hertz 1798–1870; .4, Thomas Overskou 1798–1873; .5, Christian Knud Frederik Molbech 1821–; .6, Henrik Ibsen 1828–.]

839.83 Danish and Norwegian Fiction.

.836 **Modern Period.** 1800–

[.1, Thomasine Christine Gyllembourg-Ehrensvärd 1773–1856; .2, Steen Steensen Blicher 1782–1848; .3, Christian Winther 1796–1876; .4, **Hans Christian Andersen** 1805–1875; .5, Meyer Aaron Goldschmidt 1819–; .6, Holger Drachmann; .7, **Björnstjerne Björnson** 1832–.]

839.84 Danish and Norwegian Essays.

.845 **Period of Enlightenment.** 1750–1800.

[Rasmus Nyerup 1759–1829.]

.846 **Modern Period.** 1800–

[.1, Niels Mathias Petersen 1781–1862; .2, Sören Aaby Kjérkegaard 1813–1855; .3, Rudolph Keyser 1803–1864; .4, Peter Andreas Munch 1810–1863; .5, Johan Sebastian Cammermeyer Welhaven 1807–1873; .6, Georg Brandes 1842–.]

839.87 Danish and Norwegian Satire and Humor.

.875 **Period of Enlightenment.** 1750–1800.

[.1, Peder Magnus Trojel 1743–1796; .2, Peder Koford Trojel 1754–1784; .3, Thomas Kristoffer Bruun 1750–1834.]

839.88 Danish and Norwegian Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.881 **Middle Ages.** 1100–1500.

[.1, Saxo (Longus) Grammaticus, *History*, –1208; .2, Svend Aagesen, *History*.]

.882 **Reformation.** 1500–1560.

[.1, Kristiern Pedersen, "*The Father of Danish Literature*," 1480–1554; .2, Povel Eliesen, *Sermons*, 1480–; .3, Hans Mikkelsen, *Bible Translation*, –1532; .4, Peder Plade (Palladius) 1503–1560; .5, Henrik Smith, *Medicine*, –1563.]

.883 **Learned Period.** 1560–1700.

[**History**: Hans Svaning 1508–1584; Anders Sörensen Vedel 1542–1616; Peder Klausen 1545–1614; Arild Hvitfeld 1549–1609; Klaus Lyskander 1558–1623; Ole Worm 1588–1654; Peder Resen 1625–1688.]

[**Theology**: Niels Hemmingsen 1513–1600; Holger Rosenkranz 1574–1642; Jesper Brochmand 1585–1652.]

[**Science**: Tyge Brahe, *Astronomy*, 1546–1601; Kaspar Bartholin, *Medicine*, 1585–1629; Thomas Bartholin, *Anatomy*, 1616–1680; Ole Borch, *Medicine*, 1626–1690; Niels Stensen, *Anatomy*, 1638–1686; Ole Römer, *Astronomy*, 1644–1710.]

.884 **Age of Holberg.** 1700–1750.

[1, Erik Pontoppidan, *History*, 1698–1764; .2, Jacob Langebek, *History*, 1710–1775; .3, Frederik Kristian Eilschov, , 1725–1750; .4, Gerhard Schöning, *History*, 1722–1780; 5, Peder Frederik Suhm, *History*, 1728–1798.]

.9 Gothic.

840 French Literature.

840.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on French Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

841 French Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of French Poetry.

.1 Early French, 842–1400.

.11	**"Chanson de Roland."** "Chanson de Geste."	
.12	Wace, Robert.	
.13	Marie de France.	
.14	Chrestien de Troyes	–1191.
.15	Quesnes de Bethune	–1228.
.16	Thibaut 4th, comte de Champagne	1201–1253.
.17	Rutebeuf	1230–
.18	**"Roman de la Rose."** Guillaume de Loris, 1195–1260. Jean de Meung, 1280–1320.	
.19	Minor Poets.	

.2 Transition Period, 1400–1500.

.21	Chartier, Alain	1386–1458.
.22	Orléans, Charles duc d'	1391–1465.
.23	Coquillart, Guillaume	1421–1510.
.24	Baude, Henri	1430–1495.
.25	Villon, François	1431–1485.
.26		
.27		
.28		
.29	Minor Poets.	

.3 Renaissance, 1500–1600.

.31	Daurat, Jean	1510–1588.
.32	Du Bellay, Joachim	1524–1560.
.33	Belleau, Remy	1528–1577.
.34	Ronsard, Pierre de	1524–1585.
.35	Thiard, Pontus de	1521–1605.
.36	Baïf, Jean Antoine de	1532–1589.
.37	Saluste du Bartas, Guillaume de	1544–1590.
.38	Desportes, Philippe	1546–1606.
.39	Minor Poets.	

.4 Classical Period, 1600–1715.

.41	Malherbe, François de	1555–1628.
.42	Maynard, François	1582–1646.
.43	Racan, Honorat de Bueil, marquis de	1589–1670.
.44	Chapelain, Jean	1595–1674.
.45	**La Fontaine, Jean de**	1621–1695.
.46	Deshoulières, Antoinette (du Ligier de la Garde), Madame	1637–1694.
.47	Chaulieu, Guillaume Amfrye de	1639–1720.
.48		
.49	Minor Poets.	

841.5 **18th Century, 1715–1789.**

.51	Rousseau, Jean Baptiste	1670–1741.	
.52	Racine, Louis	1692–1763.	
.53	Pompignan, Jean Jacques de Franc, marquis de	1709–1784.	
.54	Delille, Jacques	1738–1813.	
.55	Roucher, Jean Antoine	1745–1794.	
.56	Chénier, André Marie de	1762–1794.	
.57	Parny, Evariste Désiré Desforges, vicomte de	1753–1814.	
.58			
.59	Minor Poets.		

.6 **Revolution and Empire, 1789–1815.**

.61	Lebrun, Ponce Denis Écouchard	1729–1807.	
.62	Fontanes, Louis, marquis de	1757–1821.	
.63	Parseval Grandmaison, François Auguste	1759–1834.	
.64	Luce de Lancival, Jean Charles Julien	1764–1810.	
.65	Désaugiers, Marc Antoine Madeleine	1772–1827.	
.66	Campenon, François Nicolas Vincent	1772–1843.	
.67	Millevoye, Charles Hubert	1782–1816.	
.68			
.69	Minor Poets.		

.7 **Constitutional Monarchy, 1815–1848.**

.71	**Béranger, Pierre Jean de**	1780–1857.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 842.72.
.73	Deschamps, Émile	1791–1871.	
.74	Lamartine, Alphonse Marie Louis de Prat de	1792–1869.	
.75	Reboul, Jean	1796–1864.	
.76	Vigny, Alfred Victor, comte de	1799–1863.	See 842.75.
.77	Musset, Louis Charles Alfred de	1810–1857.	See 842.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 842.78 and 843.78.
.79	Minor Poets.		

.8 **Later 19th Century, 1848–**

.81	Laprade, Pierre Marin Victor Richard de	1812–1883.	
.82	Dupont, Pierre	1821–1870.	
.83	Banville, Theodore Faullain de	1820–	
.84	Sully-Prudhomme, René François Armand	1839–	
.85	Coppée, Francis Édouard Joachim	1842–	See 842.88.
.86	Deroulède, Paul	1846–	
.87			
.88			
.89	Minor Poets.		

842 French Drama.

.1 **Early French, 842–1400.**

.11	Mysteries and Miracles.	
.12	Adam de la Halle	1240–1286.
.13	Bodel, Jean.	
.14		
.15		
.16		
.17		
.18		
.19	Minor Dramatists.	

842.2 **Transition Period, 1400–1500.**

.21	Gresban, Arnoul.	
.22	Michel, Jean	–1493.
.23	Gringoire, Pierre	1480–1544.
.24		
.25		
.26		
.27		
.28		
.29	Minor Dramatists.	

.3 **Renaissance, 1500–1600.**

.31	Le Coq, Thomas.	
.32	Baïf, Lazare de.	
.33	La Peruse, Jean Bastier de	1530–1555.
.34	Jodelle, Étienne	1532–1573.
.35	Grévin, Jacques	1538–1570.
.36	La Taille, Jean de	1540–1608.
.37	Garnier, Robert	1545–1601.
.38	Larivey, Pierre de	1559–1612.
.39	Minor Dramatists.	

.4 **Classical Period, 1600–1715.**

.41	**Corneille, Pierre**	1606–1684.
.42	**Molière, Jean Baptiste Poquelin,** *called*	1622–1673.
.43	Corneille, Thomas	1625–1709.
.44	Boursault, Edme	1638–1701.
.45	**Racine, Jean**	1639–1699.
.46	Brueys, David Augustin de	1640–1723.
.47	Dufresny, Charles Rivière	1648–1724.
.48	Baron, Michel Boyron, *called*	1653–1729.
.49	Minor Dramatists.	

.5 **18th Century, 1715–1789.**

.51	La Motte, Antoine Houdart de	1672–1731.	
.52	Crebillon, Prosper Jolyot de	1674–1762.	
.53	Destouches, Philippe Nericault	1680–1754.	
.54	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 843.52.
.55	Piron, Alexis	1689–1773.	
.56	**Voltaire, François Marie Arouet de**	1694–1778.	See 843.54.
.57	Sédaine, Michel Jean	1719–1797.	
.58	Beaumarchais, Pierre Augustin Caron de	1732–1799.	
.59	Minor Dramatists.		

.6 **Revolution and Empire, 1789–1815.**

.61	Ducis, Jean François	1733–1816.	
.62	Collin-Harleville, Jean François	1735–1806.	
.63	La Harpe, Jean François de	1739–1803.	See 844.61.
.64	Fabre d'Églantine, Philippe François Nazaire	1755–1794.	
.65	Andrieux, François Guillaume Jean Stanislas	1759–1833.	
.66	Chenier, Marie Joseph	1764–1811.	
.67	Picard, Louis Benoît	1769–1828.	
.68	Lemercier, Louis Jean Népomucène	1771–1840.	
.69	Minor Dramatists.		

842.7 **Constitutional Monarchy, 1815–1848.**

.71	Soumet, Alexandre	1788–1845.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 841.72.
.73	Scribe, Augustin Eugène	1791–1861.	
.74	Ancelot, Jacques Arsène François Polycarpe	1794–1864.	
.75	Vigny, Alfred Victor, comte de	1799–1863.	See 841.76.
.76	Musset, Louis Charles Alfred de	1810–1857.	See 841.77.
.77	**Dumas, Alexandre, the elder**	1806–1870.	See 843.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 843.78.
.79	Minor Dramatists.		

.8 **Later 19th Century, 1848–**

.81	Labiche, Eugène Marin	1815-88	
.82	Ponsard, François	1824–1867.	
.83	Augier, Guillaume Victor Émile	1822–89	
.84	Dumas, Alexandre, fils	1824–	
.85	Bornier, Henri de	1825–	
.86	Sardou, Victorien	1831–	
.87	Pailleron, Édouard	1834–	
.88	Coppée, Francis Édouard Joachim	1842–	See 841.85.
.89	Minor Dramatists.		

843 French Fiction.

.2 **Transition Period, 1400–1500.**

.21	Christine de Pisan	1363–1431.
.22	Jean de Tuim.	
.23	La Sale, Antoine de	1398–1462.
.24	Chastelain, Georges	1403–1475.
.25		
.26		
.27		
.28		
.29	Minor Writers.	

.3 **Renaissance, 1500–1600.**

.31	Marguerite de Navarre	1492–1549.
.32	Desperriers, Bonaventure	1500–1544.
.33	Herberay, Nicolas d'	–1552.
.34	Du Fail, Noël	–1585.
.35	Bouchet, Guillaume	1526–1606.
.36	Beroalde de Verville, François	1558–1612.
.37		
.38		
.39	Minor Writers.	

.4 **Classical Period, 1600–1715.**

.41	Urfé, Honoré d'	
.42	Gomberville, Marin Le Roy de	1568–1625.
.43	La Calprenède, Gauthier de Costes de	1600–1647.
.44	Scudéry, Georges de	1602–1663.
.45	Scudéry, Madeleine de	1601–1667.
.46	Cyrano de Bergerac, Savinien	1607–1701.
.47	Perrault, Charles	1620–1655.
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de	1628–1703.
.49	Minor Writers.	1634–1693.

843.5 **18th Century, 1715–1789.**

.51	Le Sage, Alain René	1668–1747.	
.52	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 842.54.
.53	Prevost d'Exiles, Antoine François	1697–1763.	
.54	**Voltaire, François Marie Arouet de**	1694–1778.	See 842.56.
.55	Crébillon, Claude Prosper Jolyot de, fils	1707–1777.	
.56	**Rousseau, Jean Jacques**	1712–1778.	
.57	Restif de la Bretonne, Nicolas Edme	1734–1806.	
.58	Florian, Jean Pierre Claris de	1755–1794.	
.59	Minor Writers.		

.6 **Revolution and Empire, 1789–1815.**

.61	St. Pierre, Jacques Henri Bernardin de	1737–1814.
.62	**Staël Holstein, Anne Louise Germaine (Necker), baronne de**	1766–1817.
.63	Constant de Rebecque, Henri Benjamin	1767–1830.
.64	Maistre, Xavier de	1763–1852.
.65	Chateaubriand, François Auguste René, vicomte de	1768–1848.
.66		
.67		
.68		
.69	Minor Writers.	

.7 **Constitutional Monarchy, 1815–1848.**

.71	Beyle, Marie Henri [de Stendhal]	1783–1842.	
.72	Nodier, Charles	1790–1844.	
.73	**Balzac, Honoré de**	1799–1850.	
.74	Sue, Marie Joseph, *called* Eugène	1804–1857.	
.75	Souvestre, Émile	1806–1854.	
.76	**Dumas, Alexandre, the elder**	1806–1870.	See 842.77.
.77	Gautier, Theophile	1811–1872.	
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 842.78.
.79	Minor Writers.		

.8 **Later 19th Century, 1848–**

.81	Mérimée, Prosper	1803–1870.
.82	**Dudevant, Amantine Lucile Aurore Dupin [George Sand]**	1804–1876.
.83	Feuillet, Octave	1812–
.84	Flaubert, Gustave	1821–1881.
.85	Erckmann-Chatrian { Erckmann, Émile / Chatrian, Alexandre	1822– / 1826–90
.86	About, Edmond François Valentin	1828–1885
.87	Cherbuliez, Victor	1832–
.88	Daudet, Alphonse	1840–
.89	Minor Writers.	

844 French Essays.

.3 **Renaissance, 1500–1600.**

.31	**Montaigne, Michel Eyquem de**	1533–1592.

.4 **Classical Period, 1600–1715.**

.41	Du Vair, Guillaume	1556–1621.
.42	Saint-Évremond, Charles de Marguetel de Saint-denis de	1613–1703.

844.5 **18th Century, 1715–1789.**

.51 Fontenelle, Bernard le Bovier de 1657–1757.
.52 Montesquieu, Charles le Secondat, baron de 1689–1755.
.53 Alembert, Jean le Rond d' 1717–1783.

.6 **Revolution and Empire, 1789–1815.**

.61 La Harpe, Jean François de 1739–1803. See 842.63.
.62 Joubert, Joseph 1754–1824.
.63 Courier de Méré, Paul Louis 1772–1825.
.64 Senancour, Étienne Pivert de 1770–1846.

.7 **Constitutional Monarchy, 1815–1848.**

.71 La Mennais, Hugues Félicité Robert de 1782–1854.
.72 Villemain, Abel François 1790–1870.
.73 Planche, Jean Baptiste Gustave 1808–1857.
.74 **Sainte Beuve, Charles Augustin** 1804–1869.
.75 Saint-Marc Girardin 1801–1873.
.76 Janin, Jules Gabriel 1804–1874.
.77 Nisard, Jean Marie Napoléon Désiré 1806–

.8 **Later 19th Century, 1848–**

.81 Quinet, Edgar 1803–1875.
.82 Renan, Ernest 1823–
.83 Taine, Hippolyte Adolphe 1828–

845 French Oratory.

Subdivided by periods, like 841.

846 French Letters.

Subdivided by periods, like 841.

847 French Satire and Humor.

.1 **Early French, 842–1400.**

.11 Guyot de Provins.
.12 "Roman du Renard." See 837.31 and 839.371.
.13 Deschamps, Eustache 1320–1400.

.3 **Renaissance, 1500–1600.**

.31 Marot, Clement 1495–1544.
.32 **Rabelais, François** 1495–1553.
.33 "La Satyre Ménippée" 1594.
.34 Aubigné, Théodore Agrippa d' 1550–1630.
.35 Regnier, Mathurin 1573–1613.

.4 **Classical Period, 1600–1715.**

.41 Viau, Théophile de 1590–1626.
.42 Saint Amant, Marc Antoine Gérard 1594–1661.
.43 Scarron, Paul 1610–1660.
.44 Benserade, Isaac de 1612–1691.
.45 Furetière, Antoine 1620–1688.
.46 **Boileau Despréaux, Nicolas** 1636–1711.
.47 Regnard, Jean François 1655–1709.

.5 **18th Century, 1715–1789.**

.51 Gresset, Jean Baptiste Louis 1709–1777.
.52 Gilbert, Nicolas Joseph Laurent 1751–1780.

.7 **Constitutional Monarchy, 1815–1848.**

.71 Barthélemy, August Marseille 1796–1867.
.72 Barbier, Henri Auguste 1805–1882.

848 French Miscellany.

Subdivided by periods, like 841.

849 Provençal Literature.

.1 **Provençal poetry.**

.11 1st Period. 900–1100.

Poetry in hands of clergy. No folk poetry preserved. Form mainly epic. Language not yet fixed. Country under rule of counts, nominally subject to Emperor, really independent till 1486, then reunited to France.

.111 Epic Poetry.
Boethius.

.112 Lyric Poetry.
.119 Minor poetry. Didactic.

.12 Golden Age. 1100–1300.

Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most important.

.121 Romances of Chivalry.
Girart de Rossilho.

.122 Historical Poetry.
Croisade contre les Albigeois.

.123 Romans d'Aventures.
Flamenca.

.124 Lyric Poetry.
.125 Bernart de Ventadorn flourished about 1140–1195.
.126 Born, Bertran de " " 1180–1195.
.127 Arnaut Daniel " " 1180–1200.
.128 Borneill, Guiraut de, " " 1175–1220.
.129 Minor poetry.

Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours.

.13 Aftermath 1300–1500.

Downfall of language and literature owing to lack of content and to political and social causes, especially the Crusade against the Albigenses.

.131 Poets of school of Toulouse.

Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial—a craft Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, Chancellor of "Consistory de la gaya sciensa" established at Toulouse 1324. First prize a golden violet. When in danger of perishing, Consistory revived in 1484 and poetic exercises styled "Jeux Floraux."

.132 La Noble Leyczon.

Religious poetry of Waldenses.

.139 Minor poetry.

.14 Decadence. 1500–

Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852.

.141 Goudouli, Pierre de 1579–1649.
.142 Despourrins, Cyprien 1698–1755.
.143 Jasmin, Jacques 1798–1864.
.144 Roumanille, Joseph 1818–
.145 Aubanel, Jos. Marie J. Baptiste Theodore 1829–
.146 Mistral, Frederic 1830–
.149 Minor poetry.

849.9 **Catalan Literature.**

.91 Catalan poetry.

.911 1st Period 1200–1350.

Catalonia before 1137 ruled by French Counts, then united to Aragon. Language is closely allied to Provençal, in which first poets wrote. MSS. scattered; few as yet printed; Literature begins with James 1st (1213–'76) who made Catalan the state language.

For Ramon Muntaner see 849.981.3.

.1, Raimon Lull 1225–1315; .2, Febler 1250; .9, Minor poets.

.912 Second Period. 1350–1450.

Imitation of Neo Provençal, French and Italian, specially of Dante, Petrarch and Boccacio. Some flashes of originality. Fra Rocaberti. Imitation of Dante.

.913 Age of Perfection 1450–

From 16th Century, Catalan literature merged in Spanish, tho some writers stil employ idiom, e. g. "Balaguer."

.1, March, Ausias –1460, greatest of Catalan poets; .2, Fenollar, Bernard; .3, Jacme Roig (satiric); .4, Farrer; .5, Serafi; .6, Pujol; .7, Garcia; .9, Minor poets.

.93 Catalan Fiction.

.933 Age of Perfection 1450–

Joanet Martorel –1460. Tirant lo Blanch, a chivalric romance.

.98 Miscellany.

.981 1st Period. 1200–1350.

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner.

.1, James 1st (The Conqueror) 1213–'76; .2, Desclot, Bernardo; .3, Muntaner, Ramon 1265-1340; .4, Ximenes; .9, Minor authors.

.982 Second period. 1350–1450.

Prose resists foreign influences better than poetry. Many philosophical and theological writings beside historical works.

.1, Tomich; .2, Turell; .9, Minor writers.

850 Italian Literature.

850.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures and Addresses on Italian Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

851 Italian Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Italian Poetry.

.1 Early Italian; Age of Dante, –1375

To death of Boccaccio, 1375.

.11	Protonotario, Stefano	–1250.	
.12	Arezzo, Guittone d'	–1294.	
.13	Guinicelli, Guido	–1276.	
.14	Cavalcanti, Guido	1260–1300.	
.15	**Alighieri, Dante**	1265–1321.	
.16	Pistoia, Cino da	1270–1336.	
.17	Uberti, Fazio degli	–1369.	
.18	**Petrarca, Francesco**	1304–1374.	
.19	Minor Poets.		

.2 Period of Classical Learning, 1375–1492.

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492.

.21	Frezzi, Federigo	–1416.	
.22	Bojardo, Matteo	1430–1494.	
.23	**Medici, Lorenzo dei (Il Magnifico)**	1448–1492.	
.24	**Poliziano, Angelo**	1454–1494.	See 852.22.
.25	Benivieni, Girolamo	1453–1542.	
.26	Sannazzaro, Jacopo	1458–1530.	
.29	Minor Poets.		

.3 Age of Leo the Tenth, 1492–1542.

From death of Lorenzo il Magnifico, 1492, to Convocation of Council of Trent, 1542.

.31	Bembo, Pietro	1470–1547.	
.32	**Ariosto, Lodovico**	1474–1533.	
.33	Rucellai, Giovanni	1475–1526.	
.34	Molza, Francesco	1483–1544.	See 853.33.
.35	Tasso, Bernardo	1493–1569.	
.36	Alamanni, Luigi	1495–1556.	
.37	Guidiccioni, Giovanni	1500–1541.	
.38	Casa, Giovanni della	1503–1556.	
.39	Minor Poets.		

.4. Later 16th Century, 1542–1585.

From Convocation of Council of Trent, 1542, to Pontificate of Sixtus V., 1585.

.41	Costanzo, Angelo di	1507–1591.
.42	Rota, Bernardino	1509–1575.
.43	Tansillo, Luigi	1510–1568.
.44	Magno, Celio	1536–1602.
.45	Guarini, Giovambattista	1537–1612.
.46	**Tasso, Torquato**	1544–1595.
.47	Baldi, Bernardino	1553–1617.
.49	Minor Poets.	

851.5 **Period of Decline, 1585–1748.**

From Pontificate of Sixtus V., 1585–90, to Peace of Aix-la-Chapelle, 1748.

.51	Chiabrera, Gabriello	1552–1637.
.52	Marini, Giovambattista	1569–1625.
.53	Testi, Fulvio	1593–1646.
.54	Filicaja, Vincenzo	1642–1707.
.55	Guidi, Alessandro	1650–1712.
.56	Manfredi, Eustachio	1674–1738.
.57	Frugoni, Carlo Innocenzo	1692–1768.
.58	Algarotti, Francesco	1712–1764.
.59	Minor Poets.	

.6 **Period of Renovation, 1748–1814.**

From Peace of Aix-la-Chapelle, 1748, to Congress of Vienna, 1814.

.61	Paradisi, Agostino	1736–1783.
.62	Mascheroni, Lorenzo	1750–1800.
.63	Pindemonte, Ippolito	1753–1828.
.64	Monti, Vincenzo	1754–1828.
.65	Cassi, Francesco	1778–1846.
.66	Foscolo, Ugo	1779–1827.
.67	Arici, Cesare	1782–1836.
.68	Sestini, Bartolommeo	1792–1822.
.69	Minor Poets.	

.7 **Early 19th Century, 1814–1859.**

From Congress of Vienna, 1814, to War of Independence, 1859.

.71	Berchet, Giovanni	1783–1851.	
.72	Rossetti, Gabriello	1783–1854.	
.73	Manzoni, Alessandro	1785–1873.	See 853.72
.74	Marchetti, Giovanni	1790–1852.	
.75	Leopardi, Giacomo	1798–1837.	
.76	Carrer, Luigi	1801–1850.	
.77	Regaldi, Giuseppe	1809–1883.	
.78	Prati, Giovanni	1815–1884.	
.79	Minor Poets.		

.8 **Later 19th Century, 1859–**

From War of Independence, 1859, to

.81	Aleardi, Aleardo	1810–1878.
.82	Zanella, Giacomo	1820–
.83	Gnoli, Domenico	1836–
.84	Carducci, Giosuè	1836–
.85	Fogazzaro, Antonio	1842–
.86	Rapisardi, Mario	1843–
.87	Guerrini, Olindo	1845–
.88		
.89	Minor Poets.	

852 Italian Drama.

.1 **Early Italian; Age of Dante, –1375.**

.2 **Period of Classical Learning, 1375–1492.**

.21	Belcari, Feo	1410–1484.	
.22	Poliziano, Angelo	1454–1494.	See 851.24.
.29	Minor Dramatists.		

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Machiavelli, Niccolò	1469–1527.	See 854.31.
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520.	
.33	Trissino, Gian Giorgio	1478–1550.	
.34	Aretino, Pietro	1492–1556.	
.35	Ambra, Francesco d'	–1558.	
.39	Minor Dramatists.		

.4 **Later 16th Century, 1542–1585.**

.41	Speroni, Sperone	1500–1588.	
.42	Giraldi, G. B. Cinzio	1504–1573.	See 853.44.
.43	Cecchi, Giovanni Maria	1517–1587.	
.44	Asinari, Federigo	1527–1576.	
.45	Porta, Giovambattista della	1538–1615.	
.49	Minor Dramatists.		

.5 **Period of Decline, 1585–1748.**

.51	Buonarroti, Michelangiolo, Jr.	1564–1646.
.52	Rinuccini, Ottavio	1565–1622.
.53	Andreini, Giovambattista	1578–1650.
.54	Gigli, Girolamo	1660–1722.
.55	Zeno, Apostolo	1669–1750.
.56	Maffei, Scipione	1675–1755.
.57	Trapassi, Pietro (Metastasio)	1698–1782.
.59	Minor Dramatists.	

.6 **Period of Renovation, 1748–1814.**

For Manzoni, see 851.73 and 853.72.

.61	**Goldoni, Carlo**	1707–1793.
.62	Gozzi, Carlo	1722–1806.
.63	Capacelli Albergati, Francesco	1728–1804.
.64	**Alfieri, Vittorio**	1749–1803.
.65	Nota, Alberto	1775–1847.
.66	Biondi, Luigi	1776–1839.
.67	Benedetti, Francesco	1785–1821.
.69	Minor Dramatists.	

.7 **Early 19th Century, 1814–1859.**

.71	Niccolini, Giovambattista	1782–1861.
.72	Pellico, Silvio	1788–1854.
.73	Giacometti, Paolo	1816–1881.
.74	Gherardi del Testa, Tommaso	1818–1872.
.75	Ferrari, Paolo	1822–89
.79	Minor Dramatists.	

852.8 Later 19th Century, 1859–

.81	Bersezio, Vittorio	1830–	
.82	Cossa, Pietro	1833–1882.	
.83	Carrera, Valentino	1834–	
.84	Marenco, Leopoldo	1836–	
.85	Cavallotti, Felice	1842–	
.86	Torelli, Achille	1844–	
.87			
.88			
.89	Minor Dramatists.		

853 Italian Fiction.

.1 Early Italian; Age of Dante, –1375.

.11	"Cento Novelle Antiche" (Gualteruzzi's Collection).		
.12	Barberino, Francesco da	1264–1348.	
.13	Pisa, Guido da	–1350.	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–1375.	
.19	Minor Writers.		

.2 Period of Classical Learning, 1375–1492.

.21	Sacchetti, Franco	–1400.	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423–1497.	
.24	Mangabotti, Andrea dei		
.25	Prato, Giovanni da		
.29	Minor Writers.		

.3 Age of Leo the Tenth, 1492–1542.

.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561.	
.33	Molza, Francesco	1483–1544.	See 851.34.
.34	Firenzuola, Agnolo	1493–1548.	
.39	Minor Writers.		

.4 Later 16th Century, 1542–1585.

.41	Grazzini, Antonfrancesco (Lasca)	1503–1583.	
.42	Doni, Antonfrancesco	1513–1574.	
.43	Erizzo, Sebastiano	1525–1585.	
.44	Giraldi, G. B. Cinzio	1504–1573.	See 852.42.
.45	Parabosco, Girolamo	–1560.	
.49	Minor Writers.		

.5 Period of Decline, 1585–1748.

6 Period of Renovation, 1748–1814.

853.7 Early 19th Century, 1814–1859.

.71	Rosini, Giovanni	1776–1855.	
.72	**Manzoni, Alessandro**	1785–1873.	See 851.73.
.73	Grossi, Tommaso	1791–1853.	
.74	Guerrazzi, Francesco Domenico	–1873.	
.75	Bresciani, Antonio	1798–1862.	
.76	Cantù, Cesare	1807–	
.77	Carcano, Giulio	1812–1883.	
.78	Azeglio, Massimo d'	1800–1866.	
.79	Minor Writers.		

.8 Later 19th Century, 1859–

.81	Castellazzo, Luigi	1827–	
.82	Barrili, Anton Giulio	1836–	
.83	Capuana, Luigi	1839–	
.84	Verga, Giovanni	1840–	
.85	Faldella, Giovanni	1846–	
.86	Farina, Salvatore	1846–	
.87	Giovagnoli, Raffaello		
.88	Serao, Matilde	1856–	
.89	Minor Writers.		

854 Italian Essays.

.1 Early Italian; Age of Dante, –1375.

.11	Cavalca, Fra Domenico	–1342.	
.12	Passavanti, Fra Jacopo	–1357.	

.2 Period of Classical Learning, 1375–1492.

.21	Alberti, Leone Battista	1404–1472.	
.22	Palmieri, Matteo	1405–1475.	
.23	Bisticci, Vespasiano da	1421–1498.	
.24	Collenuccio, Pandolfo	–1504.	
.25	Vinci, Leonardo da	1452–1519.	
.29	Minor Essayists.		

.3 Age of Leo the Tenth, 1492–1542.

.31	Machiavelli, Niccolò	1469–1527.	See 852.31.
.32	Nardi, Jacopo	1476–1555.	
.33	Castiglione, Baldassare	1478–1529.	
.34	Guicciardini, Francesco	1482–1540.	
.35	Giannotti, Donato	1494–1573.	
.36	Giambullari, Pier Francesco	1495–1555.	
.37	Gelli, Giovambattista	1498–1563.	
.38	Varchi, Benedetto	1503–1566.	
.39	Minor Essayists.		

854.4 **Later 16th Century, 1542–1585.**

.41	Castelvetro, Ludovico	1505–1571.
.42	Piccolomini, Alessandro	1508–1578.
.43	Borghini, Vincenzo	1515–1580.
.44	Davanzati, Bernardo	1529–1606.
.45	Salviati, Leonardo	1540–1589.
.46	Ammirato, Scipione	1531–1601.
.47	Paruta, Paolo	1540–1598.
.48	Botero, Giovanni	1540–1617.
.49	Minor Essayists.	

.5 **Period of Decline, 1585–1748.**

.51	Sarpi, Paolo	1550–1623.
.52	Galilei, Galileo	1564–1642.
.53	Bartoli, Daniele	1608–1685.
.54	Dati, Carlo	1619–1675.
.55	Gravina, Giovanni Vincenzo	1664–1718.
.56	Muratori, Ludovico Antonio	1672–1750.
.57	Giannone, Pietro	1676–1748.
.58	Zanotti, Francesco Maria	1692–1777.
.59	Minor Essayists.	

.6 **Period of Renovation, 1748–1814.**

.61	Bettinelli, Saverio	1718–1808.
.62	Denina, Carlo	1730–1813.
.63	Tiraboschi, Girolamo	1731–1794.
.64	Lanzi, Luigi	1732–1810.
.65	Beccaria, Cesare	1735–1793.
.66	Filangeri, Gaetano	1752–1788.
.67	Cesari, Antonio	1760–1828.
.68	Perticari, Giulio	1779–1822.
.69	Minor Essayists.	

.7 **Early 19th Century, 1814–1859.**

.71	Costa, Paolo	1771–1836.
.72	Giordani, Pietro	1774–1848.
.73	Troya, Carlo	1785–1859.
.74	Balbo, Cesare	1789–1853.
.75	Capponi, Gino	1792–1878.
.76	Mamiani della Rovere. Terenzio	1800–1885.
.77	Gioberti, Vincenzo	1801–1853.
.78	Tommaséo, Niccolò	1802–1874.
.79	Minor Essayists.	

.8 **Later 19th Century, 1859–**

.81	Sanctis, Francesco de	1818–
.82	Bonghi, Ruggiero	1827–
.83	Conti, Augusto	1827–
.84	Villari, Pasquale	1827–
.85	Ardigò, Roberto	1828–
.86	Comparetti, Domenico	1835–
.87	Zumbini, Bonaventura	1840–
.88	Panzacchi, Enrico	1841–
.89	Minor Essayists.	

855 Italian Oratory.

856 Italian Letters.

857 Italian Satire and Humor.

.1 **Early Italian; Age of Dante, –1375.**

.11	Gemignano, Folgore da San	
.12	Chitarra, Cene dalla	
.13	Angiulieri, Cecco	
.14	Pucci, Antonio	–1377.
.19	Minor Writers.	

.2 **Period of Classical Learning, 1375–1492.**

.21	Burchiello, Domenico	1395–1448.
.22	Pulci, Luigi	1432–1484.
.23	Vinciguerra, Antonio	
.29	Minor Writers.	

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Folengo, Teofilo (Merlin Cocai)	1491–1544.
.32	Berni, Francesco	1496–1535.
.39	Minor Writers.	

.4 **Later 16th Century, 1542–1585.**

.41	Nelli, Pietro	
.42	Beccuti, Francesco	1509–1553.
.43	Caporali, Cesare	1531–1601.
.49	Minor Writers.	

.5 **Period of Decline, 1585–1748.**

.51	Tassoni, Alessandro	1565–1635.
.52	Bracciolini, Francesco	1566–1645.
.53	Lalli, Giovambattista	1572–1637.
.54	Lippi, Lorenzo	1606–1664.
.55	Rosa, Salvatore	1615–1673.
.56	Menzini, Benedetto	1646–1704.
.57	Sergardi, Ludovico	1660–1726.
.58	Fortiguerri, Niccolò	1674–1736.
.59	Minor Writers.	

.6 **Period of Renovation, 1748–1814.**

.61	Gozzi, Gasparo	1713–1786.
.62	Passeroni, Gian Carlo	1713–1803.
.63	Casti, Giovambattista	1721–1803.
.64	Parini, Giuseppe	1739–1799.
.65	Baretti, Giuseppe	1716–1789.
.66	Elci, Angelo Maria d'	1754–1824.
.67	Pananti, Filippo	1766–1837.
.69	Minor Writers.	

.7 **Early 19th Century, 1814–1859.**

.71	Giusti, Giuseppe	1809–1850.

858 Italian Miscellany.

.8 **Later 19th Century, 1859–**

.81	Gubernatis, Angelo de	1840–
.82	Amicis, Edmondo de	1846–

859 Wallachian Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

.9 **Rumansh Literature**

Subdivided like 859.

860 Spanish Literature.

860.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

861 Spanish Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Spanish Poetry.

.1 Early Spanish. –1369.

In 711 the Visigothic kingdom, founded in the 5th cent. was overthrown by Arabs; 711–1492 Arabic Period or Age of Reconquest.

Literature began in first half of 12th cent. Earliest poetry, epic; subjects national, themes war and religion (861.11–12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and 14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Through him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 "Primitive Monuments."

.12 **"Poema de mio Cid."**

.13 Berceo, Gonzalo de 1196–1266.

.14 Segura de Astorga, Juan Lorenzo 1250.

.15 Yañez Ruy (Cronica del Rey Alfonso Onceno).

.16 Sem Tob, Rabbí 1350.

.19 Minor Poets.

.2 Age of Imitation. 1369–1516.

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were three distinct schools:

1. Provençal, specially influential at court.
2. Italian (Dante) or Allegorical, introduced by Francisco Imperial, a Genoese. (Mena, 861.22.)
3. Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21).

.21 Lopez de Ayala, Pedro 1332–1407.

.22 Mena, Juan de 1411–1456.

.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458.

.24 Manrique, Jorge 1440–1479.

.25 Los "Cancioneros" } Collections of poetry.

.26 Los "Romances" }

.27 **Rómancero del Cid.**

"Romances" popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th cent. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492.

.29 Minor Poets.

861 .3 Golden Age. 1516–1700.

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera—16th cent.; Ribera 1588–1656; Zurbaran 1598–1662; **Velazquez** 1599–1660; Cano 1601–1667; **Murillo** 1618–1682, etc.

Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death.

Great number of poets. Nothing notable in Epic; Lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of two schools follows in which the Italian wins the major influence. Thereafter appear two new schools:

1. Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
2. Sicillian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of "bad taste" appear; (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. "Bad taste" consisted in artificialities, exaggerations, obscurities, etc.

.31 Vega, Garcilaso de la 1503–1536.

.32 Castillejo, Cristóbal de 1494–1596.

.33 Leon, Luis Ponce de 1528–1591.

Leon is equally important in prose.

.34 Los Argensolas: Lupercio, 1563–1613; Bartolomé Leonardo 1564–1631.

.35 Herrera, Fernando de 1534–1597.

.36 Mendoza, Diego Hurtado de 1503–1575.

.37 Góngora y Argote, Luis de 1561–1627.

.38 Rioja, Francisco de 1600–1659.

.39 Minor Poets.

.4 18th century. 1700–1800.

At death of Carlos 2nd (1700) war of succession resulted in firm establishment of House of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, "bad taste" every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish Academy, 1714), and doctrinal reform in French sense, proclaimed by Luzan (1702–54) in "La Poetica," etc. Thereafter a kind of revival. Three schools formed:

1. Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44).
2. Antique National, protesting against introduction of French taste. Huerta (861.43).
3. Salamanca School, an attempt to reconcile the first two, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). "Prosaism" production of exaggerated opposition to Gongorism or "bad taste" also characterizes period. Influence of French Encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism.

Rich development of fables and apologues in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty.

.41 Moratin (The elder), Nicolás Fernandez de 1737–1780.

.42 Cadalso, José de 1741–1782.

.43 Huerta, Vicente Antonio García de la 1734–1787.

.44 Samaniego, Félix María de 1745–1801.

.45 Yriarte, Tomás de 1750–1791.

.46 Valdés, Juan Melendez 1754–1817.

.47 Iglesias de la Casa, José 1748–1791.

.48 Cienfuegos, Nicasio Álvarez de 1764–1809.

.49 Minor Poets.

861.5 **19th century.** **1800–**

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) quelled. Isabella driven from throne by revolution 1868; 1871–Amadeo (Savoy house), 1873, abdicates and republic is proclaimed; Restoration of monarchy in person of Alfonso 12th in 1875.

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism re-introduced and revolution followed. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awaking with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53).

.51	Quintana, Manuel José	1772–1857.
.52	Espronceda, José de	1810–1842.
.53	Zorrilla y Moral, José	1817–90
.54	Gutierrez, Antonio García	1812–
.55	Gil y Zárate, Antonio	1792–1861.
.56	Hartzembusch, Juan Eugenio	1806–1880.
.59	Minor Poets.	

862 Spanish Drama.

.2 **Age of Imitation.** **1369–1516.**

Evidences of existence of "mysteries" but no remains.

.21	Enzina, Juan del	(?)1468–1534.
.22	Vicente, Gil	(?)1450–1536.

.3 **Golden Age.** **1516–1700.**

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 "Lope" had written 1500 dramas), 30,000 dramas composed by beginning of 18th cent. At opening of period Church tried to check development of profane drama placing nearly all in the "Index." Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence.

.31	**Vega Carpio, Lope Felix de**	1562–1635.
.32	Cāstro y Bēlvis Guillen de	1567–1621.
.33	Tellez, Gabriel (Tirso de Molina, pseud.)	(?)1570–1648.
.34	Alarcon y Mendoza, Juan Ruiz de	(?)1580–1639.
.35	**Calderon de la Barca, Pedro**	1600–1681.
.36	Rojas y Zorrilla, Francisco de	1607–
.37	Moreto y Cabaña, Agustin	1618–1669.
.39	Minor Dramatists.	

.4 **18th Century.** **1700–1800.**

Complete decadence of drama in last years of old monarchy. Revival in 18th cent., following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National School voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of writers, Comella (862.41). Period of unrest; old ideas cannot be reëstablished, new cannot be naturalized.

For Moratin the elder, see 861.41 and Huerta, 861.43.

.41	Comella, Luciano Francisco	1716–1779.
.42	Moratin, Leandro Fernandez de	1760–1828.
.43	Cruz, Ramon de la (Light comedies)	1731–1795.
.49	Minor dramatists.	

.5 **19th Century.** **1800–**

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent "romantic" movement in Spanish drama. For Gil y Zirate, see 861.55; Hartzembusch, 861.56.

.51	Martinez de la Rosa, Francisco	1789–1862.
.52	Rodriguez Rubí, Tomas	1817–
.53	Breton de los Herreros, Manuel	1796–
.59	Minor dramatists	

863 Spanish Fiction.

.2 **Age of Imitation.** **1369–1516.**

Immense vogue of books of chivalry despite legislation till publication of Don Quijote; thereafter only one written. [First part of Quijote printed 1605.]

.21	"Books of Chivalry."	
.22	**"Amadis de Gaula."**	
.23	"Celestina."	

.3 **Golden Age.** **1516–1700.**

Real novel replaces old books of chivalry about 1500. "Picaresca," or "rogue" novel characteristic of this period; a result of the state of society following wars of Charles 1st and Phillip 2d, e. g. Mendoza's "Lazarillo de Tormes." For Mendoza, see 861.36.

.31	Montemayor, Jorge de	1520–1561.
.32	**Cervantes Saavedra, Miguel de**	1547–1616.
.39	Minor novelists.	

.4 **18th Century.** **1700–1800.**

.5 **19th Century.** **1800–**

For Breton de los Herreros, see 862.53; and Rodriguez Rubi, 862.52.

.51	Larra, Mariano José de [Figaro]	1809–1837.
.52	Romanos, Ramon Mesonero de	1803–
.53	Arrom, Cecilia Boehl de [Fernan Caballero]	1797–1871.
.59	Minor writers.	

864 Spanish Essays.

865 Spanish Oratory.

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrained. Sacred eloquence less employed by Spanish church than by French or English. Gongorism or "bad taste" conquers here as elsewhere.

.1 **Early Spanish.** **–1369.**

.2 **Age of Imitation.** **1369–1516.**

.3 **Golden Age.** **1516–1700.**

For Luis de Leon, see 861.33; and Luis de Granada, 868.32.

.4 **18th Century.** **1700–1800.**

For Jovellanos, see 868.42; and Valdés, 861.46.

.5 **19th Century.** **1800–**

.51	Olozaga, Salustiano de	1803–1873.
.52	Castelar, Emilio	1832–

866 Spanish Letters.

.3 **Golden Age.** **1516–1700.**

Naturalness of old times changed with majestic court and rigid etiquette of Charles 5th. For Santa Teresa, see 868.33.

.31	Avila, Juan de	1502–1569.
.32	Perez, Antonio	1540–1611.
.39	Minor writers.	

867 Spanish Satire.

.1 **Early Spanish.** –1369.

Ruiz, Juan (Arcipreste de Hita) 1350.

.2 **Age of Imitation.** 1369–1516.

"Coplas de Mingo Revulgo."

.3 **Golden Age.** 1516–1700.

Quevedo Villegas, Francisco Gomez de 1580–1645.

.4 **18th Century.** 1700–1800.

For Cadalso, see 861.42; and Moratin the younger, 862.42.

.41 Jorge Pitillas (a pseudonym).

.42 Isla, José Francisco de (el Padre) 1703–1781.

868 Spanish miscellany.

.1 **Early Spanish.** –1369.

.11 Alfonso X., El Sábio 1221–1284.

.12 Sancho El Bravo (IV. of Castile) 1258–1295.

.13 Manuel, Juan 1282–1347.

.14 Alfonso XI. 1310–1350.

.19 Minor writers.

.2 **Age of Imitations.** 1369–1516.

General and special histories, books of travel, works called forth by Boccacio's "Corvaccio," etc.

.3 **Golden Age.** 1516–1700.

Didactic prose. Considerable development, though less than poetry, owing in a great measure to restraints political and religious. "Bad Taste" manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representatives of Mystic School.

For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3.

.31 Mariana, Juan de, Founder of Spanish History 1536–1623.

.32 Granada, Luis de 1504–1588.

.33 Teresa de Jesús, Santa 1513–1582.

.34 Cruz, San Juan de la 1542–1591.

.35 Rivadeneyra, Pedro de 1527–1611.

.36 Saavedra Fajardo, Diego de 1584–1648.

.39 Minor Writers.

.4 **18th Century.** 1700–1800.

Under Carlos 3d (1759-'88) scientific studies took a fresh start, due largely to Feijóo who attempted intellectual emancipation of Spain. Prose advances under French influence — Gallicisms introduced.

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764.

.42 Jovellanos, Gaspar Melchor de 1744–1811.

.49 Minor writers.

.5 **19th Century.** 1800–

For Hartzembusch, J. E., see 861.56.

.51 Gayangos, Pascual de 1809–

.52 Rios, José Amador de los 1818–1878.

.53 Milá y Fontanals, Manuel 1818–

.59 Minor writers.

869 Portuguese Literature.

.1, Poetry; .2, Drama; .3. Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

870 Latin Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

.1 **Lucretius Carus, Titus.** See also 187.

.2 **Ovid. (Publius Ovidius Naso.)**

.3 **Hyginus, Caius Julius.**

.4 **Faliscus, Gratius.**

.5 **Manilius, Marcus.**

.6 **Phædrus.**

.7 **Lucilius Junior. "Ætna."**

.8

872 Latin Drama.

.1 **Andronicus, Livius.**

.2 **Nævius, Cnæus.**

.3 **Plautus, Titus Maccius.**

.4 **Ennius.**

.5 **Terence. (Publius Terentius Afer.)**

.6 **Seneca, Lucius Annæus.** See also 878.5.

.7

873 Latin Epic Poetry.

.1 **Virgil. (Publius Virgilius Maro.)**

.2 **Lucanus, Marcus Annæus.**

.3 **Flaccus, Caius Valerius.**

.4 **Silius Italicus, Caius.**

.5 **Statius, Publius Papinius.**

.6

874 Latin Lyric Poetry.

.1 **Catullus, Tibullus and Propertius.**

.2 **Catullus, Valerius.**

.3 **Tibullus, Albius.**

.4 **Propertius, Sextus Aurelius.**

.5 **Horace. (Quintus Horatius Flaccus.)** See also 877.3.

.6 **Calpurnius Siculus.**

.7

875 Latin Oratory.

.1 Cicero, Marcus Tullius. Complete Works.
For Cicero's Letters see 876.1.
.2 Orations.
.3 Rhetorical Works.
.4 Philosophical Works. See also 186.3.
.5 Messala Corvinus, Marcus Valerius.
.6 Quintilian. (Marcus Fabius Quintilianus.)
.7

876 Latin Letters.

.1 Cicero, Marcus Tullius. For his other works see 875.1–875.4.
.2 Pliny. (Caius Plinius Cæcilius Secundus.)
.3 Fronto, Marcus Cornelius.
.4

877 Latin Satire and Humor.

.1 Lucilius, Caius.
.2 Cato, Valerius.
.3 Horace. See 874.5.
.4 Persius Flaccus, Aulus.
.5 Petronius Arbiter, Caius.
.6 Martial. (Marcus Valerius Martialis.)
.7 Juvenal. (Decimus Junius Juvenalis.)

878 Latin Miscellany.

.1 Cæsar, Caius Julius.
.2 Sallust. (Caius Sallustius Crispus.)
.3 Nepos, Cornelius.
.4 Livy. (Titus Livius Patavinus.)
.5 Seneca, Lucius Annæus. See also 872.6 and 188.6.
.6 Tacitus, Caius Cornelius.
.7 Suetonius Tranquillus, Caius.
.8 Curtius Rufus, Quintus.
.9 Minor Writers.

879 Mediæval and Modern Latin.

Subdivided like 820. .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

880 Greek Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on Greek Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Greek Literature.

881 Greek Poetry in General.

See Dramatic, Epic, and Lyric, below.

.1 Theognis.
.2 Aratus.
.3 Lycophron.
.4 Babrius.

882 Greek Dramatic Poetry.

.1 Æschylus.
.2 Sophocles.
.3 Euripides.
.4 Aristophanes.
.5 Epicharmus.
.6 Menander.

883 Greek Epic Poetry.

.1 Homer.
.2 Hesiod.
.3 Apollonius Rhodius.
.4 Oppian.
.5 "Orphic Poems."

884 Greek Lyric Poetry.

.1 Tyrtæus.
.2 Sappho.
.3 Anacreon.
.4 Simonides of Ceos.
.5 Pindar.
.6 Theocritus.
.7 Bion.
.8 Callimachus.
.9 Minor Greek Lyric Poets.

885 Greek Oratory.

.1 Andocides.
.2 Lysias.
.3 Isæus.
.4 Isocrates.
.5 Æschines.
.6 Demosthenes.
.7 Hyperides.
.8 Lycurgus.
.9 Minor Greek Orators.

886 Greek Letters.

.1 Themistocles.
.2 Alciphron.
.3 Phalaris.

887 Greek Satire and Humor.

For Comedies of Aristophanes see 882.4.

.1 Archilochus.
.2 Simonides of Samos.
.3 Hipponax.

888 Greek Miscellany.

.1 Herodotus.
.2 Thucydides.
.3 Xenophon.
.4 Plato. See 184.1, Platonic Philosophy.
.5 Aristotle. See 185.1, Aristotelian Philosophy.
Or if preferred the works of Plato and Aristotle may be put in 184.1, and 185.1.
.6 Æsop.
.7 Lucian.
.8 Plutarch. See also 186.2.
.9 Minor Writers.

889 Medieval and Modern Greek.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

890 Literature of Minor Languages.

Subdivided like 490, Philology of Minor Languages. If wished the .1, Poetry; .2, Drama, etc., numbers can be used after the language number. e. g., Russian Drama is 891.72; Hebrew Poetry 892.41; Bengali Poetry 891.441.

History.

900 History in General.

901–909 all have *History in General* as their subject, but it is treated in these various *forms*. A periodical on English History goes with 942, not 905, which is only for periodicals on History in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

901 Philosophy, Theories, etc. History of Civilization.

902 Compends, Chronologies, Charts, Outlines.

For Chronology as a Science, see 529.

903 Dictionaries, Cyclopedias, etc.

904 Essays, Lectures, Addresses.

905 Periodicals, Historical Magazines.

906 Societies, Transactions, etc.

907 Education, Methods of Teaching, Writing, etc.

See also 371.3.

908 Polygraphy, Collected Works, Extracts, etc.

909 Universal and General Modern Histories.

For General Ancient Histories, see 930.

.1	A. D. 476—1199.	.5	1500—1599.
.2	1200—1299.	.6	1600—1699.
.3	1300—1399.	.7	1700—1799.
.4	1400—1499.	.8	1800—1899.

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.
For map projection, see 526.9. See also 310 Statistics, 390 Customs and Costumes.
For Directories, Guide Books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914–919.

.1
.2 Traveler's Manuals, Guidebooks.
.3 Dictionaries, Gazetteers.
.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.
.5 Periodicals.
.6 Societies.
.7 Study and Teaching of Geography. School Map Drawing.
See 372.8, Primary Teaching of Geography.
.8 Collections of Travels, etc.
.9 History of Geography, Travels, Explorations, etc.

911 Historical. Growth and Changes in Political Divisions, etc. Subdivided like 930–999. also hist. atlases

912 Maps, Atlases, Plans of Cities, etc. Subdivided like 930–999.

913 Antiquities, Archæology, of Special Countries.

See also 220.93, biblical antiquities; 340.3, legal antiquities; 571, prehistoric archæology; 930, ancient history; 390, special customs. 913 is divided like 930–999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African.

914 Europe.

915 Asia.

916 Africa.

917 North America.

918 South America.

919 Oceanica and Polar Regions.

914–919 is subdivided like 940–999. Whenever these main geographical headings occur they may be subdivided exactly like History. The full list of sub-heads is printed only under 940–999. In assigning numbers to travels, use the history tables, and *insert 1 after the initial* 9, and move the decimal point; e. g. Guide to N. Y. City is 917.471, for N. Y. in history tables is 974.71.

920 Biography.

Including Autobiography, Diaries, Personal Narratives, Eulogies, Biographical Dictionaries, &c. All Biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i. e., the biography of science is divided like science itself, see 500–599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, &c. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.

Another plan is to scatter biography with the other books, leaving 920–928 blank, or using them only for general works, cross references, &c. This simply omits the first two figures 92, and the life of a botanist is 580 instead of 925.8, and goes with the botanical books.

Lives which will not go under any head without "forcing" are best put in a single alphabet under the three figures 920 for men and 920.7 for women.

General and Collective by Localities.

Including only collected lives too general to go under any subject heading.

.01 Universal.
.02 Partial Collections not limited to any special country or subject.
.03 Ancient.
.04 Of Europe.
.05 „ Asia.
.06 „ Africa.
.07 „ North America.
.08 „ South America.
.09 „ Oceanica.

Individual and Collective by Subjects.

920.1 Bibliographers.
.2 Librarians.
.3 Encyclopædists.
.4 Publishers. Booksellers.
.5 Journalists.
.6 Academicians.
.7 Women. Collected, and individual lives not clearly going with any subject.
.8 Eccentrics, Cranks, Fools, Insane, &c. See also 132.1, Insanity.
.9 Other special classes not included in 921–928, e. g., Phrenologists, Somnambulists, Mind Readers, Magicians, &c.

921 Of Philosophy.

.1 American.
.2 English. Scotch.
.3 German.
.4 French.
.5 Italian.
.6 Spanish.
.7 Slavic.
.8 Scandinavian and Other Modern.
.9 Ancient. Oriental. Patristic. Scholastic. See 180–189.

922 Of Religion. Clergy, Missionaries, Preachers.

.1 Primitive (Apostles, Fathers, &c.), Oriental, Greek, Russian. See 225.92, New Testament biography.
.2 Roman Catholic. Popes, Cardinals, &c. 21 Princes of Popes
.3 Anglican and Protestant Episcopal.
.4 Continental Protestant. Lutheran, Huguenot.
.5 Presbyterian and Congregational.
.6 Baptist.
.7 Methodist.
.8 Unitarian, Universalist, and other.
.9 Non-Christian. Atheists.

922.1–922.7 may be subdivided for nationality like 930–999.

.81 Unitarian. Universalist
.82 Campbellite
.83 Adventist
.84 New church or Swedenborgian
.85 Catholic apostolic
.86 Quaker
.87 Mennonite
.88 Shaker
.89 Other minor Christian sects

.91 Atheists
.92
.93
.94 Brahman Buddhist
.95 Parsee
.96 Jews
.97 Mohammedan
.98 Mormon
.99 Minor Non-Christian religions

923.27 = U.S.

923 Of Sociology.

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g., the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551.

.1 **Chief Rulers. Kings, Queens, Emperors, Presidents.**

.2 **Political Science. Legislative Dept., Governors, Politicians, Statesmen, Nobles, &c.** For slaves, see 326.92.

.3 **Political Economy. Bankers, Capitalists, Financiers.**

.4 **Law. Judiciary Dept., Lawyers, Judges, Criminals.**

.5 **Administration. Army and Navy, Civil Service.**

.6 **Associations and Institutions. Philanthropists, &c.**

.7 **Education. Teachers, School Officers, Educators.**

.8 **Commerce and Communication. R. R. Officials, Merchants, &c.**

.9 **Manners and Customs. Society, Travelers, Discovery.**

924 Of Philology.
925 „ Science.
926 „ Useful Arts.
927 „ Fine Arts.
928 „ Literature.

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g., in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g., a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7.

In adding figures for the subdivisions of Literature (as in 810–899) Historians are put with miscellaneous authors as 8, i. e., Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet.

929 Genealogy and Heraldry.

.1 **Genealogies.**

.2 **Families.**

.3 **Registers of Births, Baptisms, Marriages, Deaths.**

.4 **Names of Persons and Places.**

.5 **Epitaphs.**

.6 **Heraldry.**

929.7 **Peerage, precedence, titles of honor.**

.71 **Orders of knighthood.**

.711 St. John of Jerusalem.

.712 Templars.

.713 Teutonic knights.

.714 Garter.

.715 Golden Fleece.

.716 Holy Ghost.

.717

.718

.719

.72 **Great Britain and Ireland.**

.721 Peerage.

.722 Baronetage.

.723 Knightage.

.724 Dignities, precedence.

.725 Landed gentry.

.726 Visitations. Alphabeted by counties.

.73 **Germany**
.74 **France**
.75 **Italy**
.76 **Spain**
.77 **Russia**
.78 **Scandinavia**
} Divided like 929.72.

.79 **Minor countries.**
Divided like 949; minor countries outside Europe are put together in 929.799.

.8 **Coats of Arms, Crests.**

.9 **Flags.**

930 Ancient History. To A. D. 476.

931 China.

932 Egypt.

933 Judea.

934 India.

935 Medo-Persia.

- .1 **Chaldæa.**
- .2 **Assyria. Nineveh.**
- .3 **Media.**
- .4 **Babylonia.**
- .5 **Persia.**
- .6 **Parthia.**
- .7 **New Persian or Sassanian.**
- .8 **Mesopotamia.**
- .9 **Susiana.**

936 Kelts.

937 Rome. Italy.

Period Divisions.

.01	Kings.	753–509	B. C.
.02	Republic.	509– 31	„
.03	Conquest of Italy.	509–264	„
.04	Punic Wars.	264–146	„
.05	Civil Strife.	146– 31	„
.06	Empire.	31 B. C.–476	A. D
.07	Constitutional.	31 „ –284	„
	Augustus—Illyrian Emperors.		
.08	Absolute.	284–476	„
.09	Division of Empire.	395–476	„
	Barbarian Conquests and Fall of Western Empire.		

Geographical Divisions.

- .1 **Liguria.**
- .2 **Gallia Cisalpina.**
- .3 **Venetia. Istria.**
- .4 **Umbria. Picenum. Sabini, etc.**
- .5 **Etruria.**
- .6 **Latium, Rome.**
- .7 **Southern Italy: Campania, Samnium, Apulia. etc.**
- .8 **Sicily, Syracuse.**
- .9 **Sardinia. Corsica.**

938 Greece.

Period Divisions.

.01	Mythical Age.	To 776	B. C.
.02	Growth of States.	775–500	„
.03	Persian Wars. Union of Greece.	500–479	„
.04	Athenian Supremacy.	479–431	„
.05	Peloponnesian War.	431–404	„
.06	Spartan and Theban Supremacy.	404–362	„
.07	Macedonian Supremacy.	362–323	„
.08	Roman Conquest of Greece.	323–146	„
.09	Greek Subjection.	146 B. C.–323	A. D.

Byzantine Empire is put 949.5.

Geographical Divisions.

- .1 **Macedonia.**
- .2 **Thessaly. Epirus.**
- .3 **Acarnania. Ætolia. Locris. Doris. Phocis. Ithaca.**
- .4 **Bœotia. Megaris. Eubœa.**
- .5 **Attica.**
- .6 **Peloponnesus.**
- .7 **Corinthia. Achaia.**
- .8 **Elis. Arcadia. Argolis.**
- .9 **Messenia. Laconia. Sparta.**

939 Minor Countries.

- .1 **Grecian Archipelago.**
  .11, Northern Islands: Thasos, Lemnos, etc.; .12, Lesbos; .13, Chios, etc.; .14, Samos, etc.; .15, Cyclades; .16, Rhodes, etc.; .17, Carpathos; .18, Crete.
- .2 **Western Asia Minor.**
  .21, Mysia, Troas; .22, Lydia; .23, Ionia; .24, Caria; .25, Bithynia; .26, Phrygia; .27, Pisidia; .28, Lycia; .29, Pamphylia.
- .3 **Eastern Asia Minor.**
  .31, Paphlagonia; .32, Galatia; .33, Pontus; .34, Cappadocia; .35, Cilicia; .36, Commagene; .37, Cyprus.
- .4 **Syria.**
  .41, Upper Syria; .42, Cœle Syria; .43, Palmyra; .44, Phenicia, Tyre; .45, Palestine: Hittites, Philistines, etc.; .46, Edom, Moab, Bashan. etc.; .47, Arabia; .48, Arabia Petræa, Sinai.
- .5 **North Western Asia.**
  .51, Scythia; .52, Sarmatia Asiatica; .53, Colchis; .54, Iberia; .55, Armenia; .56, Albania.
- .6 **South Central Asia.**
  .61, Sogdiana; .62, Hyrcania; .63, Margiana; .64, Bactriana; .65, Ariana.
- .7 **Minor African Countries.**
  .71, Mauritania; .72, Numidia; .73, Africa Propria, Carthage; .74, Syrtica Regio; .75, Cyrenaica; .76, Marmarica; .77, Libya, Gætulia; .78, Æthiopia.
- 8 **South Eastern Europe.**
  .81, Sarmatia Europa; .82, Dacia; .83, Vindelicia; .84, Rhætia; .85, Noricum; .86, Pannonia; .87, Illyria; .88, Mœsia; .89, Thracia.

Modern History.

940 Europe.

From the fall of Western Empire (Rome), A. D. 476.

.1	**Medieval Europe.**	476–1453.
	For Byzantine Empire see 949.5.	
.2	**Rise of New Nations.**	476–800.
.3	**Age of Feudalism.**	800–1100.
	See 321.3.	
	Charlemagne. 768–814.	
	Norman Conquests.	
.4	**Age of Chivalry.**	1100–1453.
	The Crusades. To fall of Eastern Empire (Constantinople). 1453.	
	For Church History see 270.4–270.5.	
.5	**Modern Europe.**	1453——
.6	**The Renaissance Period.**	1453–1517.
	Discoveries and Inventions.	
.7	**Age of the Reformation.**	1517–1789.
	The 30 Years' War. 1618–1648.	
.8	**Napoleonic Period.**	1789–1815.
.9	**Current History.**	1815——

941 Scotland.

Period Divisions.

.01	Gaelic Period.	–1097.
.02	English Period.	1097–1314.
	Struggle for National Freedom.	
.03	Independent Kingdom.	1314–1424.
.04	The Jameses.	1424–1557.
.05	Reformation.	1557–1603.
.06	Union of Crowns and Parliaments.	1603–1707.
.07	Hanover.	1707–1837.
.08	Victoria.	1837–
.09		

Geographical Divisions.

.1 Northern Scotland.

.11, Shetland; .12, Orkney; .13, Caithness; .14, Sutherland; .15, Cromarty; .16, Ross; .17, Hebrides.

.2 North Central Scotland.

.21, Inverness; .22, Nairn; .23, Elgin; .24, Banff; .25, Aberdeen; .26, Kincardine.

.3 South Central Scotland.

.31, Forfar; .32, Perth; .33, Fife; .34, Kinross; .35, Clackmannan; .36, Sterling; .37, Dunbarton; .38, Argyll; .39, Bute.

.4 Southern Scotland.

.41, Renfrew; .42, Ayr; .43, Lanark; .44, Linlithgow, Edinburgh; .45, Haddington, Berwick; .46, Peebles, Selkirk; .47, Roxburgh; .48, Dumfries; .49, Kirkcudbright, Wigton.

941.5 Ireland.

Period Divisions.

.51	Early History.	–1086.
.52	Separate Kingdoms.	1086–1172.
	Conquest by Henry II.	
.53	Plantagenet.	1172–1399.
.54	Lancaster and York.	1399–1485.
.55	Tudors.	1485–1603.
.56	Stuarts.	1603–1691.
	Closing with Treaty of Limerick.	
.57	Hanover.	1691–1801.
	Closing with the Union.	
.58	19th Century.	1801–
.59		

Geographical Divisions.

.6 Ulster.

.61, Antrim; .62, Londonderry; .63, Donegal; .64, Tyrone; .65, Down; .66, Armagh; .67, Monaghan; .68, Fermanagh; .69, Cavan.

.7 Connaught.

.71, Leitrim; .72, Sligo; .73, Mayo; .74, Galway; .75, Roscommon.

.8 Leinster.

.81, Longford, West Meath; .82, Meath, Louth; .83, Dublin; .84, Wicklow; .85, Kildare; .86, King's Co.; .87, Queen's Co.; .88, Carlow, Wexford; .89, Kilkenny.

.9 Munster.

.91, Waterford; .92, Tipperary; .93, Clare; .94, Limerick; .95, Cork; .96, Kerry.

942 England.

Period Divisions.

For specially minute work the 6th figure printed for each sovereign may be used; e. g., Henry VII is 942.051.

.01	Anglo-Saxon.	B. C. 55–A. D. 1066.
	Prehistoric, Roman, British, Danish.	
.02	Norman.	1066–1154.
	1, William I. 1066–1087; 2, William II. 1087–1100; 3, Henry I. 1100–1135; 4, Stephen 1135–1154.	
.03	Plantagenet.	1154–1399.
	1, Henry II. 1154–1189; 2, Richard I. 1189–1199; 3, John 1199–1216; 4, Henry III. 1216–1272; 5, Edward I. 1272–1307; 6, Edward II. 1307–1327; 7, Edward III. 1327–1377; 8, Richard II. 1377–1399.	

942 .04 Lancaster and York. 1400–1485.

1, Henry IV. 1399–1413; 2, Henry V. 1413–1422; 3, Henry VI. 1422–1461; 4, Edward IV. 1461–1483; 5, Edward V. 1483; 6, Richard III. 1483–1485.

.05 Tudor. 1485–1603.

1, Henry VII. 1485–1509; 2, Henry VIII. 1509–1547; 3, Edward VI. 1547–1553; 4, Mary 1553–1558; 5, Elizabeth 1558–1603. See 272.7.

.06 Stuart. 1603–1714.

1, James I. 1603–1625; 2, Charles I. 1625–1649; 3, Commonwealth 1649–1653; 4, Oliver Cromwell 1653–1658; 5, Richard Cromwell 1658–1659; 6, Charles II. 1660–1685; 7, James II. 1685–1688; 8, William III. 1689–1702; 9, Anne 1702–1714.

.07 Hanover. 1714–1837.

1, George I. 1714–1727; 2, George II. 1727–1760; 3, George III. 1760–1820; 4, George IV. 1820–1830; 5, William IV. 1830–1837.

.08 Victoria. 1837–

Geographical Divisions.

.1 **Middlesex. London.**

.2 **Southeastern.**

.21, Surrey; .23, Kent; .25, Sussex; .27, Hants; .28, Isle of Wight; .29, Berks.

.3 **Southwestern.**

.31, Wilts; .33, Dorset; .34, Channel Islands; .35, Devon; .37, Cornwall; .38, Somerset.

.4 **West Midland.**

.41, Gloucester; .43, Monmouth; .44, Hereford; .45, Salop; .46, Stafford; .47, Worcester; .48, Warwick.

.5 **North and South Midland.**

.51, Derby; .52, Notts; .53, Lincoln; .54, Leicester, Rutland; .55, Northampton; .56, Huntington, Bedford; .57, Oxford, Buckingham; .58, Hertford; .59, Cambridge.

.6 **Eastern.**

.61, Norfolk; .64, Suffolk; .67, Essex.

.7 **Northwestern and Yorkshire.**

.71, Cheshire; .72, Lancashire; .74, Yorkshire.

.8 **Northern.**

.81, Durham; .82, Northumberland; .85, Cumberland; .88, Westmoreland; .89, Isle of Man.

.9 **Wales.**

.91, Anglesey; .92, Carnarvon, Merioneth; .93, Denbigh, Flint; .94, Montgomery; .95, Cardigan; .96, Radnor, Brecknock; .97, Glamorgan; .98, Carmarthen; .99, Pembroke.

943 Germany and Austria.

Period Divisions.

.01 Formative Period.

Wars with Rome. Charlemagne 800–814; Louis I 814–840; Lothaire I 840–843.

.02 Empire before the Reformation.

1, **Carolingian,** 843–911: Louis II 843–876; Charles II 876–877; Charles III 877–887; Arnulf 887–899; Louis III 900–911.

2, House of Franconia: Conrad I 911–918; House of **Saxony,** 919–1024: Henry I 919–936; Otto I 936–973; Otto II 973–983; Otto III 983–1002; Henry II 1002–1024.

3, House of **Franconia,** 1024–1125: Conrad II 1024–1039; Henry III 1039–1056; Henry IV 1056–1106; Henry V 1106–1125; House of Saxony: Lothaire II 1125–1137.

4, House of **Hohenstaufen,** 1137–1197: Conrad III 1138–1152; Frederick I 1152–1190; Henry VI 1190–1197.

5, House of **Hohenstaufen** and **Interregnum,** 1198–1272: Philip 1198–1208; Otto IV 1208–1212; Frederick II 1212–1250; Conrad IV 1250–1254; William of Holland 1254–1256; Richard of Cornwall 1256–1272.

6, Houses of **Hapsburg, Luxemburg,** etc., 1273–1378: Rodolph I 1273–1291; Adolphus 1291–1298; Albert I 1298–1308; Henry VII 1308–1313; Louis IV 1313–1347; Charles IV 1347–1378.

7, **Interregnum,** 1378–1437: Wenceslaus 1378–1400; Rupert 1400–1410; Sigismund 1410–1437.

8, Albert II 1438–1439; Frederick III 1440–1493.

9, Maximilian I 1493–1519.

.03 Reformation to 1618. 1517–1618.

1, Charles V 1519–1556; 2, Ferdinand I 1556–1564; 3, Maximilian II 1564–1576; 4, Rodolph II 1576–1612; 5, Matthias 1612–1619.

.04 Disintegration. 1618–1705.

1, Thirty Years' War 1618–1648; 2, Ferdinand II 1619–1637; 3, Ferdinand III 1637–1657; 4, Leopold I 1658–1705.

.05 Rise of Prussia. 1705–1789.

1, Joseph I 1705–1711; 2, Charles VI 1711–1740; 3, 1740–1742; 4, Charles VII 1742–1745; 5, Francis I 1745–1765; *6, Seven Years' War 1756–1763;* 7, Joseph II 1765–1790.

.06 Napolconic Wars. 1789–1815.

Leopold II 1790–1792; Francis II 1792–1806; Confederation of the Rhine 1806–1815.

.07 Reorganization. 1815–1866.

.08 New German Empire. 1866–

1, North German Confederation 1866–1871; 2, Franco-German War 1870–1871; 3, William I 1871–88; 4, Frederick 1888; William II 1888–

Geographical Divisions of Germany and Austria.

943.1 **Prussia and Northern Germany.**

943 .11, East Prussia; .12, West Prussia; .13, Posen; .14, Silesia; .15, Brandenburg; .16, Pomerania; .17, Mecklenburg and Lubeck; .18, Prussian Saxony; .19, Anhalt.

.2 **Central Germany.**

.21, Saxony; .22, **Thuringia;** .23, Saxe-Weimar; .24, Saxe-Altenburg; .25, Saxe-Gotha-Coburg; .26, Saxe-Meiningen; .27, Schwartzburg; .28, Reuss.

943.3 **Bavaria.**

.31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Suabia.

.4 **Southern Germany.**

.41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurtemburg; .48, *Black Forest* and *Danube*; .49, Hohenzollern.

.5 **Northwest Germany.**

.51, Schleswig-Holstein and Hamburg; .52, Oldenburg and Bremen; .53, Hanover; .54, Brunswick; .55, Lippe; .56, Westphalia; 57, Waldeck; .58, Hesse-Nassau.

943.6 Austria.

.61, Lower Austria; .62, Upper Austria; .63, Salzburg; .64, Tyrol; 65, Styria; .66, Carinthia; 67, Carniola; .68, Istria; .69, Dalmatia.

.7 **Bohemia, etc.**

.71, Bohemia; .72, Moravia; 73, Silesia; .74, Galicia; .75, Bukowina.

.8 **Poland.** Including the history before the division.

.9 **Hungary, etc.**

.91, Hungary; .92, Transylvania; .93, Slavonia; .94, Croatia, Fiume; .95 Bosnia; .96, Herzegovina.

944 France.

Period Divisions.

.01 Early History. –987.

Ancient Celts –59 B. C.; Roman Dominion 59 B. C.–418 A. D.; Merovingian Dynasty 428–752; Carolingian 752–987.

.02 Capet and Valois. 987–1589.

House of **Capet.**

1, Hugh Capet 987–996; Robert II 996–1031; Henry I 1031–1060.

2, Philip I 1060–1108; Louis VI 1108–1147; Louis VII 1147–1180.

3, Philip II 1180–1223; Louis VIII 1223–1226; Louis IX 1226–1270.

4, Philip III 1270–1285; Philip IV 1285–1314; Louis X 1314–1316; John I 1316; Philip V 1316–1322; Charles IV 1322–1328.

House of **Valois.**

5, Philip VI 1328–1350; John II 1350–1364; Charles V 1364–1380.

6, Charles VI 1380–1422; Charles VII 1422–1461.

7, Louis XI, 1461–1483; Charles VIII 1483–1498; Louis XII 1498–1515.

House of **Angoulême.**

8, Francis I 1515–1547; Henry II 1547–1559.

9, Francis II 1559–1560; Charles IX 1560–1574; Henry III 1574–1589.

.03 **Bourbon.** 1589–1789

1, Henry IV 1589–1610; 2, Louis XIII 1610–1643; 3, Louis XIV 1643–1715; 4, Louis XV 1715–1774; 5, Louis XVI 1774–1789.

.04 Revolution. 1789–1804.

1, National Assembly 1789–1792; 2, First Republic 1792–1799; 3, Convention, 1792–1795; 4, Reign of Terror; May 1793–July 1794; 5, Directory 1795–1799; 6, First Consulate, Napoleon, 1799–1804.

.05 First Empire. 1804–1815.

Napoleon, I 1804–1814; Louis XVIII 1814–1815; The Hundred Days March 20–June 29, 1815.

944.06 Restoration. 1815–1848.

1, Louis XVIII 1815–1824; 2, Charles X 1824–1830; 3, Louis Philippe 1830–1848.

.07 Second Republic and Second Empire. 1848–1870.

Revolution of 1848; Second Republic, Louis Napoleon, Pres., 1848–1852, Napoleon III 1852–1870.

.08 Third Republic. 1870–

Franco-German War, Government of National Defence 1870–1871; National Assembly 1871; Presidency of Thiers 1871–1873; McMahon 1873–1879; Grévy 1879–87; Sadi-Carnot 1887–

Geographical Divisions of France.

944.1 **Brittany. Maine. Anjou.**

.11, Finistère; .12, Côtes du Nord; .13, Morbihan; 14, Loire Inférieure; 15, Ille et Vilaine; 16, **Maine**: Mayenne; 17, Sarthe; 18, **Anjou**: Maine et Loire.

.2 **Normandy. Picardy.**

.21, Manche; .22, Calvados; .23, Orne; 24, Eure; 25, Seine Inférieure; 26, **Picardy**: Somme; 27, **Artois**: Pas de Calais; 28, Nord.

.3 **Champagne. Isle de France. Lorraine.**

.31, Ardennes; .32, Marne; .33, Aube, Haute Marne; .34, **Isle de France**: Aisne; .35, Oise; 36, Seine et Oise, Paris; .37, Seine et Marne; .38, **Lorraine**: Meuse, Moselle; 39, Meurthe, Vosges.

.4 **Burgundy. Franche Comte. Savoy.**

.41, Yonne; .42, Côte d'Or; .43, Saône et Loire; .44, Ain; .45, **Franche Comté**: Haute Saône, Belfort; .46, Doubs; .47, Jura; .48, **Savoy**: Savoie; .49, Haute Savoie.

.5 **Orleans, etc. Auvergne.**

.51, Eure et Loir; .52, Loiret; .53, Loir et Cher; 54, **Touraine**: Indre et Loir; .55, **Berry**: Indre, Cher; .56, **Nivernais**: Nièvre; .57, **Bourbonnais**: Allier; .58, **Lyonnais**: Loire, Rhône; .59, **Auvergne**: Puy de Dôme, Cantal.

.6 **Poitou. Limousin.**

.61, Vendée; .62, Deux Sèvres; .63, Vienne; .64, Charente Inférieure; .65, Charente; .66, **Limousin**: Haute Vienne; .67, Corrèze; .68, **Marche**: Creuse.

.7 **Guienne. Gascony.**

.71, Gironde; .72, Dordogne; .73, Lot; .74, Aveyron; .75, Tarn et Garonne; .76, Lot et Garonne; .77, **Gascony**: Landes, Gers; .78, Hautes Pyrénées; .79, **Bearn**: Basses Pyrénées.

.8 **Languedoc.**

.81, Haute Loire, Lozère; .82, Ardèche; .83, Gard; .84, Hérault; .85, Tarn; .86, Haute Garonne; .87, Aude; .88, **Foix**: Ariége; .89, Pyrénées Orientales.

.9 **Provence. Dauphiny.**

.91, Bouches du Rhône; .92, Vaucluse; .93, Var; .94, Alpes Maritimes; .95, Basses Alpes; 96, **Dauphiny**; 97, Hautes Alpes; 98, Drôme; 99, Isère.

945 Italy.

Period Divisions.

.01	Gothic and Lombard Kingdoms.	476–774.
.02	Frankish Emperors.	774–961.
.03	German Emperors.	962–1122.
	Hildebrand and Papal Supremacy.	
.04	Age of the Communes.	1100–1300.
	Free Cities. Strifes of Guelphs and Ghibelines.	
.05	Age of the Despots.	1300–1492.
.06	Age of Invasions.	1492–1527.
.07	Spanish-Austrian Ascendancy.	1527–1796.
.08	Struggle for Independence.	1796–1870.
.09	United Italy.	1870–
	Victor Emanuel, Cavour, Garibaldi.	

Geographical Divisions of Italy.

945.1 **Piedmont and Liguria.**
.2 **Lombardy.**
.3 **Venetia.**
.4 **Emilia.**
.5 **Tuscany.**
.6 **Marches, Umbria and Latium.**
.7 **Naples.**
.71, Abruzzo and Molise; .72, Campania; .73, Napoli; .74, Salerno; .75, Apulia; .76, Lecce, Terra di Otranto; .77, Basilicata, Potenza; .78, Calabria; 79, Reggio di Calabria.
.8 **Sicily. Malta.**
.9 **Sardinia and Corsica.**

946 Spain.

Period Divisions.

.01	Early History. Roman Dominion. Gothic Kingdom.	—— 711.
.02	Moorish Kingdom.	711–1479.
.03	Ferdinand V and Isabella.	1479–1516
	Discovery.	
	Expulsion of the Moors.	
.04	Charles I and Philip II.	1516–1598.
	Inquisition. War with the Netherlands. Armada. Charles I (V of Germany) 1516–1556; Philip II 1556–1598.	
.05	Philip III.—Charles IV.	1598–1808.
	Degeneration. 1, Philip III 1598–1621; 2, Philip IV 1621–1665; 3, Charles II 1665–1700; 4, House of Bourbon: 5, Philip V 1700–1746; 6, Ferdinand VI 1746–1759; 7, Charles III 1759–1788; 8, Charles IV 1788–1808.	
.06	Peninsular War.	1808–1814.
	Joseph Bonaparte.	
.07	Bourbon Restoration.	1814–1868.
	Attempts at Reform.	
	Ferdinand VII 1814–1833; Isabella II. 1833–1868.	
.08	Later 19th Century.	1868 ——
	Revolution of 1868–1870; Amadeus 1870–1873; Republic 1873–1875; Alfonso XII 1875–85; Alfonso XIII 1886–	

Geographical Divisions of Spain.

946.1 **Galicia. Asturias.**
.2 **Leon. Estramadura.**
.3 **Old Castile.**
.4 **New Castile.**
.5 **Aragon.**
.6 **Basque Provinces.**
.7 **Catalonia. Balearic Isles. Valencia. Murcia.**
.8 **Andalusia. Canary Isles.**
.9 **Portugal.**
.98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

.01	Primitive Russia.	—— 862.
.02	Varangian Kingdom.	862–1237.
	Conversion to Christianity.	
.03	Mongolian Invasion.	1237–1462.
	Civil Wars.	
.04	Ivan III—Ivan V.	1462–1689.
	Origin of Serfdom.	
.05	Peter the Great.	1689–1725.
	Wars with Sweden and Turkey.	
.06	Catharine I—Catharine II.	1725–1796.
	Partition of Poland.	
.07	Paul I—Nicholas I.	1796–1855.
	War with Napoleon.	
	Insurrection of Poland.	
	Crimean War. See also 942.08; 944.07; 945.08; 949.6.	
.08	Alexander II—	1855–1881.
	Emancipation of the Serfs.	
	Turko-Russian War.	
	Alexander III—	1881–

Geographical Divisions of Russia.

947.1 **Finland. Lapland.**
.2 **Northern Great Russia.**
Archangel; Vologda; Olonetz; Novgorod.
.3 **Southern Great Russia.**
.4 **Baltic Provinces.**
Courland; Livonia; Esthonia; St. Petersburg.
.5 **Russian Poland.**
.6 **West Russia.**
.7 **Little Russia. South Russia.**
.8 **East Russia.**
.9 **Caucasia.**

948 Norway, Sweden, and Denmark.

Period Divisions.

.01 Legendary Period. —— 800.

.02 Consolidation. Migration. 801–1397.
Introduction of Christianity.
Discovery of Iceland, Greenland, and America.
Conquest of Britain and Normandy.

.03 Union of the three kingdoms. 1397–1523.
Civilization. Foreign relations.

.04 The Reformation. 1523–1648.
Edict of Toleration, 1527.
30 Years' War. Gustavus Adolphus.

.05 Decline. 1648–1792.
Wars, vs. Denmark, Poland, Russia.
Political changes.

.06 Napoleonic Wars. 1792–1818.
Union of Norway and Sweden, 1814.

.07 Charles XIV. (Bernadotte). 1818 ——.
Peace. Internal reform.

.08

Geographical Divisions.

.1 **Norway.**
.2 **Christiania.**
.3 **Christiansand. Bergen.**
.4 **Hamar. Throndhjem. Tromso.**
.5 **Sweden.**
.6 **Gothland.**
.7 **Svealand.**
.8 **Norrland.**
.9 **Denmark.**

949 Minor Countries of Europe.

.1 **Iceland. Faroe Islands.**
01, Commonwealth, –1264; 02, Mediævalism, 1264–1551; 03, Absolute Rule, Decay, 1551–1848; 04, Modern Iceland, 1848 ——.

.2 **Netherlands.**
01, Early History, –1477; 02, Austrian Dominion, 1477–1566; 03, Wars for Independence, 1566–1648; 04, Age of Prosperity, 1648–1795; 05, Revolutionary, 1795–1830; 06, 19th Century, 1830 ——.

.3 **Belgium.**

.4 **Switzerland.**
01, Early History, –1300; 02, Struggle for Independence, 1300–1499; 03, Reformation, 1499–1648; 04, Period of Tranquillity, 1648–1789; 05, Period of Revolution, 1789–1815; 06, 19th Century, 1815 ——.

949.5 **Byzantine Empire and Modern Greece.**
01, Greek Revival. 323–716.
Constantine the Great — Theodosius III.
02, Byzantine Prosperity. 716–1057.
Leo III — Michael VI.
03, Byzantine Decline. 1057–1204.
Isaac I — Latin conquest of Constantinople.
04, Greek Survival. 1204–1453.
Constantinople taken by the Turks, 1453.
05, Turkish Power. 1453–1821.
06, Greek Independence. 1821 ——.

.6 **Turkey in Europe.** .61, Constantinople.
.7 **Servia. Bulgaria. Montenegro.**
.8 **Roumania: Wallachia, Moldavia.**
.9 **Islands of Grecian Archipelago.**
Divided like 939.1.

950 Asia.

951 China.
.1, N. E. China, Peking; .2, S. E. China, Canton, Hong Kong, Formosa; .3, S. W. China; .4, N. W. China; .5, Thibet; .6, East Turkestan; .7, Mongolia; .8, Manchuria; .9, Corea.

952 Japan.

953 Arabia.
.1, Sinai; .2, Hejaz, Mecca; .3, Yemen; .4, Hadramaut, Mahrah; .5, Oman; .6, Hasa; .7, Dahna; .8, Nejd; .9, Syrian Desert.

954 India.
.1, Bengal, Orissa, Assam, Bhotan; .2, Northwest Provinces, Oudh, Nepal; .3, Central Provinces; .4, Rajputana; .5, Punjab, Delhi, Lahore; .6, Cashmere; .7, Bombay, Sind, Baroda; .8, Madras, Mysore, Travancore, Ceylon; .9, Hyderabad.

955 Persia.

956 Turkey in Asia. See also 949.6.
.1, Khodavendikyar; .2, Aidin, Smyrna; .3, Kastamuni, Angora; .4, Konieh, Adana, Cyprus; .5, Trebizond, Sivas; .6, Erzerum, Diarbekr, Karpoot; .7, Bagdad, Kurdistan; .8, Aleppo; .9, Damascus, Phenicia, Palestine.

957 Siberia.

958 Afghanistan. Turkestan. Baluchistan.
.1, N. E. Afghanistan, Cabul; .2, South Afghanistan, Candahar; .3, N. W. Afghanistan, Herat; .4, Turkestan; .5, Kiva; .6, Bokhara; .7, Ferghana or Khokan; .8, **Baluchistan.**

959 Farther India.
.1, British Burmah; .2, Burmah; .3, Siam; .4, Laos; .5, Lower Siam, Malay Peninsula; .6, Cambodia; .7, French Cochin China; .8, Anam; .9, Tonkin.

960 Africa.

961 North Africa.

.1, Tunis; .2, Tripoli; .3, Fezzan.

962 Egypt.

.1, Lower Egypt, Alexandria, Cairo; .2, Middle Egypt; .3, Upper Egypt, Thebes; .4, Nubia; .5, Dongola; .6, Egyptian Soudan, Kartum; .7, Darfur; .8, Kordofan; .9, Sennaar.

963 Abyssinia.

964 Morocco.

965 Algeria.

966 North Central Africa.

.1, Sahara; .2, Soudan; .3, Senegambia; .4, Sierra Leone; .5, Upper Guinea; .6, Liberia; .7, Ashantee; .8, Dahomey; .9, Gold Coast.

967 South Central Africa.

.1, Lower Guinea; .2, Loango, Congo; .3, Angola, Benguela; .4, Interior; .5, Congo Basin; .6, Central Lake Region; .7, Somali; .8, Zanzibar; .9, Mozambique.

968 South Africa.

.1, Sofala; .2, Transvaal; .3, Zululand; .4, Natal; .5, Orange Free State; .6, Kaffraria; .7, Cape Colony; .8, West Coast; .9, Interior.

969 Madagascar. Mauritius.

970 North America.

.1, Indians, Aborigines; .2, Lives of Indians; .3, Special Tribes; .4, Special States; .5, Government Relation and Treatment; .6, Special Subjects, Character, Civilization, Agriculture, etc.

See 371.95, Education; 572.97, Ethnology; 497, Languages.

971 Canada. British America.

.1 **British Columbia.**

.2 **North-West Territory.**

.21, ; .22, Athabasca; .23, Alberta; .24, Saskatchewan; .25, Assiniboia; .26, Keewatin; .27, Manitoba; .28, N. E. Territory.

.3 **Ontario.**

.4 **Quebec.**

.5 **New Brunswick.**

.6 **Nova Scotia.**

.7 **Prince Edward Island.**

.8 **Newfoundland.**

.9 **Labrador.**

972 Mexico. Central America.

Period Divisions.

.01	Ancient Civilization.	— 1516.
	1, Toltec; 2, Chichimec; 3, Tarascan; 4, Aztec; 5, Maya.	
.02	Discovery and Spanish Rule.	1516–1810.
.03	Independence.	1810–1822.
.04	First Empire. Iturbide I. Pronunciamientos.	1822–1845.
.05	War with U. S. See also 973.6.	1845–1848.
.06	Constitution of '57. Reform.	1848–1861.
.07	French Intervention.	1861–1867.
.08	Later History.	1867 —

Geographical Divisions.

.1 **Free Zone and Northern States.**

Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango.

.2 **Lower California and Islands.**

.3 **Central Pacific States.**

Sinaloa, Jalisco, Colima, Michoacan.

.4 **Interior States.**

Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos.

.5 **Mexico. Federal District.**

.6 **Southern Gulf States.**

Veracruz, Tabasco, Campeche, Yucatan.

.7 **Southern Pacific States.**

Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas.

.8 Central America.

.81 Guatemala.
.82 British Honduras. Belize.
.83 Honduras.
.84 San Salvador.
.85 Nicaragua.
.86 Costa Rica.

.9 West Indies.

.91 Cuba.
.92 Jamaica.
.93 Santo Domingo.
.94 Hayti.
.95 Porto Rico.
.96 Bahamas.
.97 Leeward Islands.
.98 Windward Islands, Barbados.
.99 Bermudas.

973 United States and Territories.

Period Divisions.

.1 Discovery. A. D. 896–1607.
Norse, Spanish, Dutch, French, English.

.2 Colonial. 1607–1775.
French and Indian Wars.

.3 Revolution and Confederation. Divided like 973.7 1775–1789.

.4 Constitutional Period. For U. S. Constitution, see 342.73. 1789–1812.
Federalists and Republicans. See 329.1.
Washington, 1789–1797; John Adams, 1797–1801; Jefferson, 1801–1809.

.5 War of 1812. 1812–1845.
Hartford Convention. 1814.
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Annexation of Texas. 1845. See also 976.4, Texas.
Madison, 1809–1817; Monroe, 1817–1825; John Quincy Adams, 1825–1829; Jackson, 1829–1837; Van Buren, 1837–1841; Harrison, 1841; Tyler, 1841–1845.

.6 War with Mexico. 1845–1861.
The Wilmot Proviso. 1846.
Compromise of 1850.
Struggle in Kansas. 1854–1859. See also 978.1, Kansas.
Polk, 1845–1849; Taylor, 1849–1850; Fillmore, 1850–1853; Pierce, 1853–1857; Buchanan, 1857–1861.

.7 Civil War. Abolition of Slavery. Lincoln, 1861–1865.
.71 Political History. Causes. Results.
.72 Diplomatic History. Relations with other Nations.
.73 Special Campaigns and Battles.
.74 General Military History. Raising Troops. Armies.
.75 Naval History.
.76 War Meetings and Addresses. Celebrations. Anniversaries. Commemorations.
.77 Charities. Sanitary Commission. Hospital Sketches. Prison Life.
.78 Personal Narratives. Vindications. Secret Service.
.79 War Poetry, Dramas, Novels, and Sermons.

.8 Later 19th Century. 1865 ——.
Reconstruction. Civil Service Reform.
Johnson, 1865–1869; Grant, 1869–1877; Hayes, 1877–1881; Garfield, 1881; Arthur, 1881–1885; Cleveland, 1885–89; Harrison, 1889–.

974 North-Eastern or North Atlantic. New England.

.1 **Maine.**
.11 Aroostook.
.12 Somerset. Piscataquis.
.13 Penobscot.
.14 Washington. Hancock.
.15 Waldo. Knox. Lincoln.
.16 Kennebec.
.17 Franklin. Oxford.
.18 Androscoggin. Sagadahoc.
.19 Cumberland. York.

974.2 **New Hampshire.**
.21 Coos.
.22 *White Mts.*
.23 Grafton.
.24 Carroll. Belknap.
.25 Strafford.
.26 Rockingham.
.27 Merrimac. Sullivan.
.28 Hillsborough.
.29 Cheshire.

.3 **Vermont.**
.31 Grand Isle. Franklin. Chittenden.
.32 Orleans. Essex.
.33 Caledonia. Lemoille.
.34 Washington.
.35 Addison.
.36 Orange. Windsor.
.37 Rutland.
.38 Bennington.
.39 Windham.

.4 **Massachusetts.**
.41 Berkshire.
.42 Franklin. Hampshire. Hampden.
.43 Worcester.
.44 Middlesex.
.45 Essex.
.46 Suffolk. *Boston.*
.47 Norfolk.
.48 Plymouth. Bristol.
.49 Barnstable. Dukes. Nantucket.

.5 **Rhode Island.**
.51 Providence.
.52 *Providence city.*
.53 *Pawtucket.*
.54 Kent.
.55 Bristol.
.56 Newport.
.57 *Newport city.*
.58 *Block Island.*
.59 Washington.

.6 **Connecticut.**
.61 Litchfield.
.62 Hartford.
.63 *Hartford city.*
.64 Tolland. Windham.
.65 New London.
.66 Middlesex.
.67 New Haven.
.68 *New Haven city.*
.69 Fairfield.

974.7 **New York.**

.71 New York City.

.72 Vicinity of New York City.
1, Long Island; 2, Kings Co.; 3, *Brooklyn;* 4, Queens Co.; 5, Suffolk Co.; 6, Richmond Co., Staten Island; 7, Westchester Co.; 8, Rockland Co.

.73 Southeast counties.
1, Orange, *West Point;* 2, Putnam; 3, Dutchess; 4, Ulster; 5, Sullivan; 6, Delaware; 7, Green; 8, *Catskill Mts.;* 9, Columbia.

.74 Middle east counties.
1, Rensselaer, *Troy;* 2, Albany; 3, *Albany City;* 4, Schenectady; 5, Schoharie; 6, Montgomery; 7, Fulton; 8, Saratoga; 9, Washington.

75 Northern counties.
1, Warren, *Lake George;* 2, Hamilton; 3, Essex, *Adirondacks;* 4, Clinton, *Lake Champlain;* 5, Franklin; 6, St. Lawrence; 7, Jefferson; 8, *The Thousand Islands;* 9, Lewis.

.76 North central counties.
1, Herkimer; 2, Oneida; 3, *Utica;* 4, Madison; 5, Onondaga; 6, *Syracuse;* 7, Oswego; 8, Cayuga; 9, Seneca.

.77 South central counties.
1, Tompkins; 2, Cortland; 3, Chenango; 4, Otsego; 5, Broome; 6, *Binghamton;* 7, Tioga; 8, Chemung; 9, *Elmira.*

.78 West central counties.
1, Schuyler; 2, Yates; 3, Steuben; 4, Alleghany; 5, Livingston; 6, Ontario; 7, Wayne; 8, Monroe; 9, *Rochester.*

.79 Western counties.
1, Orleans; 2, Genesee; 3, Wyoming; 4, Cattaraugus; 5, Chautauqua; 6, Erie; 7, *Buffalo;* 8, Niagara; 9, *Niagara Falls.*

.8 **Pennsylvania.**

.81 Southeast counties. Philadelphia and Chester group.
1, Philadelphia; 2, Montgomery; 3, Chester; 4, Delaware; 5, Lancaster; 6, Berks; 7, Schuylkill; 8, Dauphin; 9, Lebanon.

.82 Eastern counties. Bucks group.
1, Bucks; 2, Northampton; 3, Wayne; 4, Pike; 5, Monroe; 6, Carbon; 7, Lehigh.

.83 Northeast counties. Northumberland group.
1, Northumberland; 2, Luzerne; 3, *Wilkes-Barré;* 4, Susquehanna; 5, Wyoming; 6, Lackawanna; 7, *Scranton;* 8, Columbia; 9, Montour.

.84 Southeast central counties. Cumberland group.
1, York; 2, Adams; 3, Cumberland; 4, Franklin; 5, Perry; 6, Mifflin; 7, Juniata; 8, Union; 9, Snyder.

.85 Northeast central counties. East Lycoming group.
1, Lycoming; 2, ; 3, Centre; 4, Clinton; 5, Potter; 6, Tioga; 7, Bradford; 8, ; 9, Sullivan.

.86 Northwest central counties. West Lycoming group.
1, Clearfield; 2, Jefferson; 3, McKean; 4, ; 5, Elk; 6, Cameron; 7, Warren; 8, Forest; 9, Clarion.

.87 Southwest central counties. Bedford group.
1, Bedford; 2, Fulton; 3, Huntingdon; 4, ; 5, Blair; 6, *Altoona;* 7, Cambria; 8, ; 9, Somerset.

.88 Southwest counties. Westmoreland group.
1, Westmoreland; 2, Washington; 3, Greene; 4, Fayette; 5, Alleghany; 6, *Pittsburgh;* 7, *Alleghany City;* 8, Armstrong; 9, Indiana.

.89 Northwest counties. Alleghany group.
1, Butler; 2, Beaver; 3, Lawrence; 4, ; 5, Mercer; 6, Venango; 7, Crawford; 8, ; 9, Erie.

974.9 **New Jersey.**

.91 East Jersey.

.92 Northern counties.
1, Bergen; 2, ; 3, Passaic; 4, *Paterson;* 5, ; 6, Hudson; 7, *Jersey City;* 8, *Hoboken.*

.93 Central counties.
1, Essex; 2, *Newark;* 3, *Orange;* 4, ; 5, ; 6, Union; 7, *Elizabeth;* 8, *Rahway.*

.94 Southern counties.
1, Middlesex; 2, *New Brunswick;* 3, ; 4, Somerset; 5, ; 6, Monmouth; 7, ; 8, Ocean.

.95 West Jersey.

.96 Central counties.
1, Burlington; 2, ; 3, ; 4, ; 5, Mercer; 6, *Trenton;* 7, *Princeton.*

.97 Northern counties.
1, Hunterdon; 2, *Raritan;* 3, ; 4, Morris; 5, ; 6, Sussex; 7, ; 8, Warren.

.98 Upper southern counties.
1, Gloucester; 2, ; 3, ; 4, Atlantic; 5, ; 6, ; 7, Camden; 8, *Camden city.*

.99 Lower southern counties.
1, Salem; 2, *Salem city;* 3, ; 4, Cumberland; 5, *Bridgeton;* 6, ; 7, ; 8, Cape May.

975. South-Eastern or South Atlantic.

Including general works on "the South."

.1 **Delaware.**

.2 **Maryland.**

.3 **District of Columbia.**

.4 **West Virginia.**

.5 **Virginia.**

.6 **North Carolina.**

.7 **South Carolina.**

.8 **Georgia.**

.9 **Florida.**

976 South Central or Gulf.

.1 Alabama.
.2 Mississippi.
.3 Louisiana.
.4 Texas.
.5
.6 Indian Territory.
.7 Arkansas.
.8 Tennessee.
.9 Kentucky.

977 North Central or Lake.

.1 Ohio.
.2 Indiana.
.3 Illinois.
.4 Michigan.
.5 Wisconsin.
.6 Minnesota.
.7 Iowa.
.8 Missouri.
.9

978 Western or Mountain.

Including general works on "the West."

.1 Kansas.
.2 Nebraska.
.3 South Dakota. Including works on Dakota as a whole.
.4 North Dakota.
.5
.6 Montana.
.7 Wyoming.
.8 Colorado.
.9 New Mexico.

979 Pacific.

.1 Arizona.
.2 Utah.
.3 Nevada.
.4 California.
.5 Oregon.
.6 Idaho.
.7 Washington.
.8 Alaska.

980 South America.

981 Brazil.
982 Argentine Republic. Patagonia.
983 Chili.
984 Bolivia.
985 Peru.
986 U. S. of Colombia. New Granada. Ecuador.
987 Venezuela.
988 Guiana.
989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.

991 Malaysia.

.1, Borneo; .2, Celebes; .3, Moluccas or Spice Islands; .4, Philippine Islands.

992 Sunda.

.1, Sumatra; .2, Java.

993 Australasia.

.1, New Zealand; .2, New Caledonia; .3, Loyalty Islands; .4, New Hebrides; .5, Solomon Islands; .6, New Britain, New Ireland; .7, Admiralty Islands.

994 Australia.

.1, Western Australia; .2, South Australia; .3, Queensland; .4, New South Wales; .5, Victoria; .6, Tasmania.

995 New Guinea.

996 Polynesia.

.1, Fiji, Friendly and Navigator's Islands; .2, Society, Austral and Cook's Islands; .3, Marquesas Islands and Low Archipelago; .4, Minor Polynesian Islands; .5, Micronesia; .6, Caroline and Pelew Islands; .7, Ladrone Islands; .8, Marshall and Gilbert Islands; .9, Hawaii.

997 Isolated Islands.
998 Arctic Regions.
999 Antarctic Regions.

RELATIV SUBJECT INDEX

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

Topics accidentally omitted from the index will be found in a supplement at the end.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

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Wrongs, torts, law 347.5
Wrought iron structures arch. 721.92
[1] Wurtemburg, Germany history 943.47
Wyatt, T: English poetry 821.27
Wycherly, W: " drama 822.44
[1] Wyoming, Co., N. Y. history 974.793
[1] U. S. history 978.7
massacre Penn. history 974.8
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Xenophanes early Greek philos. 182.3
Xenophon Greek literature 888.3
Ximenes Catalan miscellany 849.9814
Xylography 761
Xylophone musical instr. 789.6
Xyrideæ botany 584.36
Yacht-building 699
Yachting 797
Yale college 378.746
Yañez Ruy Spanish poetry 861.15
Yards, stock architecture 725.27
Yarns manufactures 677
[1] Yates Co., N. Y. history 974.782
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Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

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- solar chronology 529.2
Yeast adulterations 614.315
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domestic economy 641
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Yellow fever diseases 616.928
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[1] Yellowstone Park description 917.87
[1] Yemen, Arabia history 953.3
[1] Yonne, France " 944.41
York, house of English history 942.04
[1] Yorkshire, England history 942.74
[1] Yosemite, Cal. description 917.94
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[1] Zacatecas, Mexico history 972.4
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Zanella, Giacomo Italian poetry 851.82
Zanotti, F. M. " essays 854.58
[1] Zanzibar, Africa history 967.8
Zealand, province of history 949.2
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[4] Zend Avesta Persian lit. 891.52
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Zenith telescope astronomy 522.43
Zenithal projections geodesy 526.84
Zeno, Apostolo Italian drama 852.55
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Zephaniah Bible 224.96
Zesen, P. von German poetry 831.56
Zinc, inorganic chemistry 546.47
metallurgy 669.5
ores economic geology 553.45
oxide of protect. exter. agents 615.776
roofs building 695.4
Zirconium 546.83
Zither music 787.8
Zoantharia radiates 593.63
Zodiac astronomy 523.29
Zodiacal light " 523.59
Zoölogical gardens 590.7
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Zouaves military science 355
Zschokke, J. H. D. German fiction 833.71
[1] Zululand history 968.3
Zumbini, Bonaventura, Italian essays 854.87
Zunis Indians 970.3
[1] Zurich history 949.4
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Topics in black face type are sub-divided. Superior figures refer to the tables at the end of this index.

INDEX TABLES.

Table 1.—Geographical Divisions.

The following subjects may all be divided geographically by adding the geographical numbers: 1. e., 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be farther sub-divided as minutely as wished, like the history, 940–999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geographical numbers are formed by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixed to the number given in the table below; e. g.: Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix the 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. State, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. State.

A number of unimportant topics, e. g. minor religious sects, which may be divided geographically, are omitted from this table.

373.	Academies, private.
379.	" public.
354.	Administration (except U. S.).
923.5	" biography.
923.5	Admirals' lives.
283.	American P. E. church.
922.3	" " " biography.
911..	Ancient geography.
283.	Anglican church.
922.3	" " biography.
591.9	Animals, geographical distribution.
328.	Annals, legislative.
913.	Antiquities, archæology.
922.3	Archbishops' lives, Anglican.
922.2	" " Roman catholic.
720.9	Architecture, history of.
923.5	Army biography.
709.	Art, history of.
362.9	Asylums.
027.2	Atheneum libraries.
912.	Atlases.
923.3	Bankers' lives.
286.1	Baptist, Calvinistic.
286.2	" Free will.
286.3	" Seventh day.
922.6	" lives.
016.9	Bibliography of history.
015.	" special countries.
920.0	Biography of countries, collective; also religious biography 922.2 to 922.8, and biography of sociology 923.1 to 923.8.
922.3	Bishops' lives, Anglican and P. E.
922.2	" " Roman catholic.
655.4	Bookselling, history of.
581.9	Botany, geographical.
284.2	Calvinist church.
922.4	" lives.
923.3	Capitalists' lives.
922.2	Cardinals' "
282.	Catholic church.
922.2	" " biography.
284.8	" Old, church.
361.9	Charitable associations.
283.	Church, Episcopal.
922.3	" " biography.
27	" history.
027.3	Circulating libraries.
027.4	City libraries, public.
923.5	Civil service biography.
027.2	Club libraries.
367.9	Clubs, social.
332.49	Coinage, history of.
027.7	College libraries.
378.	Colleges.
325.	Colonies.
923.8	Commerce, biography of.
285.8	Congregational church.
922.5	" " biography.
342.	Constitutional law.
922.4	Continental Protestants' lives.
655.6	Copyright.
343.	Criminal law.
923.4	Criminals' lives.
614.12	Deaths and death-rates.
91	Description, geographical.
91	Directories.
591.9	Distribution of animals, geog.
549.9	" " minerals "
581.9	" " plants "
572.9	" " races "
284.1	Dutch reformed church (except America).
285.7	Dutch reformed church (in America).
922.4	Dutch reformed church biography.
27	Ecclesiastical history.
378.	Education, college.
372.9	" elementary.
370.9	" history of.

373.	Education, intermediate (private).
376.9	" of woman.
373.	" private academies.
379.	" public school.
923.7	Educators' lives.
372.9	Elementary education.
325.1	Emigrants.
923.1	Emperors' lives.
027.4	Endowed libraries.
373.	" schools.
628.09	Engineering, sanitary.
283.	Episcopal church.
922.3	" " biography.
287.6	" Methodist, church.
922.7	" " " biog.
572.9	Ethnology.
027.1	Family libraries.
376.9	Female education.
336.	Finance.
923.3	Financiers' lives.
349.	Foreign law.
327.	" relations.
354.	" states, administration.
560.9	Fossils, geographical distribution.
027.9	Free news rooms.
027.4	" public libraries.
289.6	Friends or quakers.
922.8	" " " biography.
027.0	General libraries, hist., reports, etc.
581.9	Geographical botany.
591.9	" dist. of animals.
560.9	" " " fossils.
549.9	" " " minerals.
572.9	" " " races.
91	Geography, description.
911.	" historical.
912.	" maps.
55	Geology.
724.3	Gothic revival, architecture.
724.4	" Victorian, "
354.	Government admin. (except U. S.).
027.5	" libraries.
352.0	" local.
923.2	Governors' lives.
724.2	Grecian revival, architecture.
614.09	Health, public.
911.	Historical geography.
016.9	History, bibliography of.
362.9	Hospitals.
284.5	Huguenots.
922.4	" biography.
613.09	Hygiene.
325.	Immigration.
338.9	Industrial legislation.
607.	Institutes of technology.
368.9	Insurance.

373.	Intermediate education.
923.4	Judges' lives.
923.1	Kings' lives.
923.4	Law biography.
342.	" constitutional.
343.	" criminal.
349.	" foreign.
338.9	Legislation, industrial.
328.	Legislative bodies and annals.
923.2	Legislators' lives.
027.0	Libraries, general, histories, rep., etc.
352.0	Local government.
284.1	Lutheran church.
922.4	" " biography.
912.	Maps.
923.8	Merchants' lives.
287.6	Methodist episcopal.
922.7	" biography.
553.70	Mineral waters.
549.9	Minerals, geographical distribution.
332.49	Mints, history.
780.9	Music, history of.
015.	National bibliography.
920.0	" biography.
923.5	Naval "
724.6	Néo-Grec architecture.
027.9	News rooms, free.
923.2	Nobles' lives.
560.9	Paleontology.
027.8	Parish libraries.
328.	Parliamentary bodies.
329.9	Parties, political (except U. S.).
923.6	Philanthropists' lives.
912.	Plans of cities, etc.
581.9	Plants, geographical distribution.
363.9	Political associations.
923.3	" economy, biography.
329.9	" parties (except U. S.).
923.2	" science, biography.
320.9	" " history of.
923.2	Politicians' lives.
312.	Population, statistics of.
373.	Preparatory schools.
285.1	Presbyterian church in America.
285.2	" " " Gr. Britain.
922.5	" " biography.
923.1	Presidents' lives.
655.1	Printing, history of.
365.9	Prisons.
027.1	Private libraries.
373.	" schools.
027.2	Proprietary libraries.
283.	Protestant Episcopal church.
922.3	" " " biog.
922.4	Protestants, Continental, lives.
614.09	Public health.

027.4	Public libraries.
379.	" school system.
015.	Publishers' lists.
655.4	Publishing, history of.
289.6	Quakers.
922.8	" lives.
724.5	Queen Anne architecture.
923.1	Queens' lives.
572.9	Races of men.
923.8	Railroad officials' lives.
027.4	Rate supported libraries.
027.9	Reading rooms, free.
364.9	Reformatory institutions.
284.1	Reformed church.
285.7	" (Dutch) church in Amer.
922.4	" " " biography.
327.	Relations, foreign.
27	Religious history.
724.1	Renaissance architecture.
282.	Roman Catholic church.
922.2	" " " biography.
724.8	Romanesque revival, architecture.
923.1	Rulers, Chief, lives.
628.09	Sanitary engineering, history, etc.
284.7	Scandinavian church.
922.4	" " biography.
027.8	School libraries.
923.7	" officers' biography.
373.	Schools, private.
379.	" public, system.
508.	Scientific travels.
366.9	Secret societies.
373.	Seminaries, private.
923.5	Service, Civil, biography.
286.3	Seventh day baptist.
922.6	" " " biography.
289.8	Shakers.
922.8	" biography.
653.09	Shorthand, history.

326.9	Slavery, history.
367.9	Social clubs.
366.9	Societies, secret.
027.2	Society libraries.
923.5	Soldiers' lives.
379.	State education.
027.5	" libraries.
923.2	Statesmen's lives.
31	Statistics.
312	" of population.
027.3	Subscription libraries.
324.	Suffrage.
027.8	Sunday school libraries.
289.4	Swedenborgians.
922.8	" biography.
284.7	Swedish church.
922.4	" " biography.
724.7	Swiss architecture.
923.7	Teachers' lives.
607.	Technical schools.
724.7	Timber architecture.
027.4	Town libraries, public.
91	Travel, description.
508	" scientific.
341.2	Treaties, texts and history.
724.4	Tudor architecture.
288.	Unitarian church.
922.8	" biography.
289.1	Universalist church.
922.8	" " biography.
378.	Universities, history, reports, etc.
027.7	University libraries.
724.4	Victorian Gothic, architecture.
324.	Voting.
922.4	Waldenses biography.
553.70	Waters, mineral.
376.9	Woman's education.
591.9	Zoölogy, geographical.

Table 2.— Form Divisions.

The form distinctions 01, Philosophy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

The following is an alphabetical list of these divisions, and the figures prefixed should be *added* to the number of the subject to be sub-divided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06 Academies.
06 Acts of societies.
04 Addresses.
06 Associations.
02 Charts. Tabular views. Compends.
08 Collected works.
08 Collections.
02 Compends.
03 Concordances.
03 Cyclopedias.
03 Dictionaries.
04 Discourses.
04 Disputations.
07 Education.
03 Encyclopedias.
04 Essays.
06 Exhibitions.
08 Extracts.
09 History.
04 Lectures.
04 Letters.
03 Lexicons.
08 Libraries, collections, series.
05 Magazines.
02 Manuals.
08 Maxims.
01 Methods.
08 Miscellanies.
07 Museums.
02 Outlines.
04 Papers.
05 Periodicals.
01 Philosophy.
08 Polygraphy.
06 Reports of societies.
05 Reviews.
07 Schools.
07 Seminaries.
06 Societies.
07 Study.
02 Systems.
07 Teaching.
01 Theories.
04 Tracts.
07 Training schools.
06 Transactions.
08 Treatises.
01 Utility.

Table 3.— Languages.

The table below includes all languages mentioned in the classification, except those in 494—499, not yet sub-divided.

Any language in this table may be sub-divided like 420, English.

Any philological topic in the index may be transferred to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to sub-divide the language is to prefix the language figures as given in this table to the philological numbers given in Table 4.

All three methods give the same result.

491.58 Afghani.
492.8 Amharic.
429. Anglo Saxon.
492.7 Arabic.
492.1 Aramaic.
491.54 Armenian.
491.68 Armorican.
492.19 Assyrian.
491.52 Avestan, Zend.
492.19 Babylonian.
491.52 Bactrian, Old.
491.68 Bas Breton.
491.69 Basque.
491.44 Bengali.
491.86 Bohemian.
491.68 Breton, Bas.
491.81 Bulgarian.
492.6 Carthaginian.
449.9 Catalan.
492.2 Chaldee.
491.81 Church Slavonic.
493.2 Coptic.
491.67 Cornish.
491.83 Croatian.

492.19 Cuneiform.
491.65 Cymric Group.
491.66 " or Welsh.
439.8 Danish.
439.4 Deutsch, Platt.
439.3 Dutch.
493.1 Egyptian, Old.
42 English.
427.01 " Old.
491.61 Erse, Gadhelic group.
491.63 " Gaelic.
492.8 Ethiopic.
477.5 Etruscan.
439.6 Faroese.
439.3 Flemish.
44 French.
447.01 " Old.
439.2 Frisian.
491.61 Gadhelic Group.
491.63 Gaelic or Scotch.
43 German.
437.02 " Middle High.
437.01 " Old High.
439.9 Gothic.
48 Greek.
489. " Modern.
491.47 Gujerati.
492.4 Hebrew.
492.9 Himyaritic.
491.43 Hindi.
491.1 Hindu languages.
491.43 Hindustani.
491.53 Huzwaresh.
439.6 Icelandic.
491.1 Indic Group.
491.62 Irish.
45 Italian.
492.4 Jewish.
491.83 Kroatian.
491.57 Kurdish.
47 Latin.
479. " Medieval.
491.93 Lettish.
491.92 Lithuanian.
491.93 Livonian.
439.3 Low Dutch.
479 " Latin.
491.64 Manx.
491.46 Marathi.
479. Medieval Latin.
437.02 Middle High German.
489. Modern Greek.
491.55 " Persian.
491.87 Moravian.
492.19 Nineveh Cuneiform.
439.6 Norse, Old.
439.8 Norwegian.
491.52 Old Bactrian.
493.1 " Egyptian.
427.01 " English.
447.01 " French.
437.01 " High German.
439.6 " Norse.
491.51 " Persian.
491.91 " Prussian.
439.2 " Saxon.
491.45 Orissa.
491.56 Ossetic.
491.3 Pali.
491.42 Panjabi.
491.53 Pehlevi.
491.55 Persian, Modern.
491.51 " Old.
492.3 Peshito.
492.6 Phenician.
439.4 Platt Deutsch.
491.89 Polabian.
491.85 Polish.
469. Portuguese.
491.2 Prakrit.
449. Provençal.
491.91 Prussian, Old.
491.58 Pushtu.
459.9 Rhaeto-Romansch.
489. Romaic.
459. Roumanian.
459.9 Rumansh.
491.7 Russian.
491.79 Ruthenian.
492.5 Samaritan.
491.2 Sanskrit.
429. Saxon, Anglo-.
439.2 Saxon, Old.
439.5 Scandinavian languages.
491.63 Scotch or Gaelic.
491.82 Servian.
491.41 Sindhi.
491.48 Singhalese.
491.81 Slavonic, Church.
491.87 Slovakian.
491.84 Slovenian.
491.88 Sorbian.
46 Spanish.
439.7 Swedish.
492.3 Syriac.
491.45 Uriya.
459. Wallachian.
491.66 Welsh.
491.52 Zend.

Table 4. — Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e. g.:

English orthography	421
Provençal "	449.1
Arabic "	492.71
Gaelic "	491.631
Syntax of English verbs	425.8
" Modern Greek verbs	489.58
" Danish "	439.858
" Armenian "	491.5458
Inflection of English nouns	425.15
" Anglo-Saxon nouns	429.515
" Hebrew "	492.4515
" Welsh "	491.66515

18 Abbreviations.
12 Ablaut.
16 Accent, pronunciation.
61 " prosody.
51 Accidence.
25 Accusative, etymology.
55 " syntax.
26 Adjectival forms, derivation.
516 Adjectives, inflection.
56 " syntax.
29 Adverbs, derivation.
59 " syntax.
22 Affixes, derivation.
11 Alphabet.
21 Analogy.
53 Analysis, grammar.
67 Antistrophe, prosody.
28 Aorist, etymology.
58 " syntax.
7 Archaisms.
709 Argot.
53 Arrangement of words and clauses.
56 Articles, syntax.
12 Aspirates.
28 Augment, etymology.
83 Barbarisms.
83 Blunders.
25 Case endings, derivation.
55 Cases, syntax.
87 Chrestomathies.
53 Clauses, arrangement of.
516 Comparison, inflection.
26 Comparison, signs of, derivation.
54 Conditional sentences.
518 Conjugation.
29 Conjunctions, etymology.
59 " syntax.
28 Conjunctive mood, etymology.
58 " " syntax.
13 Consonants.
12 Crasis.
25 Dative case, etymology.
55 " " syntax.
515 Declension of nouns.
2 Derivation of words.
7 Dialects.
3 Dictionaries.
25 Diminutives, derivation.
12 Diphthongs.
17 Diplomatics.
701 Early forms of language.
86 Elementary readers.
53 Ellipsis.
52 Enallage.
83 Errors of speech.
2 Etymology, derivation.
51 " inflection.
89 Examination papers.
63 Feet, prosody.
64 Figures of prosody.
82 First lessons.
63 Foot, prosody.
24 Foreign elements.
25 Gender, etymology.
25 Genitive case, etymology.
55 " " syntax.
7 Glossaries, dialects.
3 " language.
83 Grammatical errors.
65 Hexameters.
64 Hiatus.
54 Hypothetical sentences.
31 Idioms.
88 Individual authors, texts.
28 Infinitive mood, etymology.
58 " " syntax.
51 Inflection.
516 " of adjectives.
515 " " nouns.
517 " " pronouns.
518 " " verbs.
17 Inscriptions.
29 Interjections, etymology.
59 " syntax.
29 Interrogatives, etymology.
59 " syntax.
21 Laws of language.
1 Letters, alphabet.

3 Lexicography.
3 Lexicons.
17 Manuscripts.
65 Meters, prosody.
28 Moods, signs of, derivation.
58 " syntax.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relative pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form.
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
8 Text books.
68 " " for writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.
892.8	Amharic.
892.7	Arabic.
892.1	Aramaic.
891.54	Armenian.
891.68	Armorican.
892.19	Assyrian.
891.52	Avestan, Zend.
892.19	Babylonian.
891.52	Bactrian, Old.
891.68	Bas Breton.
891.69	Basque.
891.44	Bengali.
891.86	Bohemian.
891.68	Breton, Bas.
891.81	Bulgarian.
892.6	Carthaginian.
849.9	Catalan.
892.2	Chaldee.
891.81	Church Slavonic.
893.2	Coptic.
891.67	Cornish.
891.83	Croatian.
892.19	Cuneiform.
891.65	Cymric Group.
891.66	" or Welsh.
839.8	Danish.
839.4	Deutsch, Platt.
839.3	Dutch.
893.1	Egyptian, Old.
82	English.
891.61	Erse, Gadhelic group.
891.63	" Gaelic.
892.8	Ethiopic.
839.6	Faroese.
839.3	Flemish.
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Boston [etc.]

1894

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EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to *no* division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the **full tables of sub-sections**; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction to the full edition from which the "Tables and Index" are reprinted.

INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

DEC 4 1903

Origin and growth.— The plan of the following Classification and Index was developt early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamflets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increast without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection containd on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitiv to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finisht. The methods used involvd frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explaind proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowd to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamflets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides

to the proper page of a bound book. This difficult problem has been solvd by using no reference marks except the simplest symbols known to the human mind — the Arabic numerals — and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamflets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users askt for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.— The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

Edition	Date	No. of pages				Copies printed
		Preface, etc.	Tables	Index	Total	
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

What is the system?— A Relativ Index[1] with a subject classification, so numberd or letterd that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

[1]Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system — the relativ index, on which all else hinges — had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.

Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.— The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemd good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.— The decimal form means simply that the heads are groupt and numberd with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

Relativ Subject Index.— The alfabetical Index, the most important feature of the system, is as complete as could bc made by combining the headings of leading catalogs and bibliografies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having becn determind, reference to that head in the Index gives the class number which should be assignd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himsclf in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamflets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, thruout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referd to 337, or some one of its sub-divisions.

Had he lookt for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examin the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves, the difference would be clearly seen.

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a clast catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work, and held his place for a long scries of years, there was a certain degree of uniformity; but even then there was danger of looking at the samc book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the currcnt point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical uscfulness does not require that the ideas of this one or that one be followd, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designd and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assignd to the same place, and that any reader seeking these books shall be referd to that place. If this is done, all requirements of a good classification are fild. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.— Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.— The essential complement of the Subject Index is the tables of classification, so mapt out as to show in four ways — viz., by size of type, face of type, indention, and number of figures prefixt — the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numberd by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are markt *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considerd independently, and each one is separated again into nine special divisions of the main subject, numberd from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numberd in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamflet belonging to the library. All geometries are thus numberd 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numberd 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.— The selection and arrangement of the many thousand heads of the classification cannot be explaind in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preservd in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.— Wherever practicable, heads have been so arranged that each subject is preceded and followd by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followd in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.— Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geografical division, and a zero followd by another figure is added to give a division into periods.

As all history is by countries, and as minute geografical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no further geografical division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

New subjects.— When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.— In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

Form distinctions.— The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on

divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followd by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoölogical magazine is 590.5, not 590.05.

Minute classification.— On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestiond, if the user knows just what it is. With this plan it is not only practicable, but comparativly easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be *greatly helpt by the most minute classing*. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if

there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoölogy, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.— Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are groupt together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then

must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alfabetical lists of (1) subjects, with class number of each, which may be subdivided geografically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliografy of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliografy of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.— We have not sacrificed utility in order to force sub-

jects on the decimal procrustean bed. *Decimals have been used as servants, not as masters.* When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemd the most useful way, all things considerd. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemd more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and profetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, tho indention and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful

0 to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

Relativ location.—Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamflet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject.[1] In finding books, the printed numbers on the backs are followd, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numberd, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numberd and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followd by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raisd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

[1]For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.

book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.— Most libraries have abandond close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are groupt in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefixt to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solvd, there is no conflict between the size problem and the Decimal Classification.

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the clast catalog on cards.

Name catalog.— In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single colum as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the colum for the class number wanted.

Shelf list.— In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in colums accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog.— In the card catalog of subjects the classification is mapt out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alfabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for convenience the name as well as the number of the subject; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

Dictionary catalog.— While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensiv to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandond as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliografy. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemd the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

ADVANTAGES

Shelves.— The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangment, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything else. The advantages here have been already mentiond under Relativ location, p. 19.

Shelf list.— By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be

present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gaind with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.— From the accession book, tables of the number of books added on each subject are readily made from the shelf mark colums. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelvd but also what it is about.

Pamflets.— These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelvd in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurd, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncatalogd pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferd, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.— The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.— Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,— for the check box is necessary as a record of loans,— is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.— In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.— When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowd, without interfering in any appreciable degree with the circulation of the books. The methods employd for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently markt to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.— The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamflets alone, bringing order out of chaos, and solving this vext and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.— Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusiv use of Arabic numerals thruout the shelves,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.— Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamflet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assignd to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great service in working up this plan of special endowments.

Summary.— The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv; more easily understood, rememberd, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamflets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thuroly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

PLAN OF BOOK

Tables.— The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be lookt up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

Index.— Next is an alfabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternativ names for heads, and any other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.— In thinking or speaking of the class numbers, to avoid confusion **always divide at the decimal point, and name it**; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 as 272, while "two seventy, point two" can never be misunderstood.

USE OF TABLES AND INDEX

Familiarity with classification.— Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. **As a check against error, use the index freely,** even tho familiar with the scheme.

Subject of a book.— To find out the subject of a book consult: —

1. **The title,** since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone, but always examin also

2. **Table of contents,** which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters,** or marginal topics.

4. **Preface.**— Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5. **Reference books.** — If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**— If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult

7. **Specialists.**— Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.— 1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27[9].

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould,* but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 28[7].

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discust, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.— Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geografical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be alterd. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.— In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers, substitute 8

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently markt 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.—The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,—has led most libraries to arrange books under each class number alfabetically by authors, or in local history by towns, or in biografy by biografees. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C: A. Cutter, and known as the Cutter numbers.

Time numbers.—A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.[1]

[1] Full explanations of the best methods for both arrangements, with complete tables, can be had of the publishers of this work.

Accession order.—A third arrangement — simpler but otherwise less desirable — is in order of accession; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numberd 1, might be so written as to confuse with subsection 513.1, but 513 A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation; e. g. $5\frac{13}{1}$ or 513–1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considerd in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparativ ease and cost of introducing them into any given library.

Cautions.—Having decided to adopt the system in its decimal form as workt out and printed, it must be determind whether to adopt certain variations, noted in 1–5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple

matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compeld to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learnd if numbers have been already assignd with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimd at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the coöperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the "relativ index system," oftener called the "Dewey system." For its essentials see p. 8[7]–9.

1. **Letter notations for changes.**— To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e. g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them as indext.** When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e. g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils.— In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefixt to show their special character. This gives J alone as the class number for juvenil fiction, and e. g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,

to have the J books in alfabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

Biografy.— A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz.; to put all biografies in one alfabet of names of *persons written about*, marking all the books simply B for class number, and indicating the subject or biografee by a Cutter book number; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

Travel.— By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

Parallel libraries.— This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be groupt under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

Combining language and literature.— The same principle can be applied also in combining each language with its literature, if it is

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 820, 821, etc. For a better plan see Broken order, p. 36^7–37^4.

Reference library.— To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phœnix library of Columbia College. This has P prefixt to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial 0 in the class "General works" was formerly recommended; e. g. 51 instead of 051 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial 0 is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determin the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinisht number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2. **Contractions for specialists.**— The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

practical gain to justify the labor if a great quantity of slips must be numberd. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "—5". A body of such notes can be inserted together in their place in an index at 839.715, with a colord card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. **Use of alfabet or chronology for final subdivisions.**— While our plan is decimal as distinguisht from the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alfabetical index. Frequently in minute divisions it is economy to arrange alfabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biografy, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e. g. in chemistry, to put all the metals in one alfabet under 546.3, instead of using the numbers 546.3–.99. If this change is wisht, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alfabet under 546. Such use of the alfabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alfabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alfabetically by elements," e. g.:—

546.3	**Metals.**	**Arrange metals alfabetically.**
·31	Alkali group.	
·32	Potassium.	
·33	Sodium.	
·33	Lithium.	
·34	Rubidium.	
·35	Caesium.	

Then find each of these heads in the index and cancel all figures after 546.3, e. g.:—

Potassium, inorganic chemistry, 546.32
Rubidium, " " 546.35

This plan has special value in this place, as new elements are discoverd from time to time, and can readily be inserted in alfabetic place. Still many chemists think it valuable to have similar metals groupt together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number

for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 14[4].

4. **Broken order.**— Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biografy are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gaind, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have markt on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. **Pro and con division of topics.**— It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz. 324.3, 324.3c, 324.3p; or if + and — ar used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is groupt into its final classes, see page 30.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguin hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently publisht, is reported "not in stock," when such an arrangement by subjects would have reveald its place at once. Specialists often find on the shelves books that they would never have orderd, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alfabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog,

the cards of each class being further arranged, as in case of the scrap sheets, according to any alfabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamflets are already manufactured. Details cannot be given here, but may be found in the full descriptiv and illustrated catalog of the Library Bureau, 146 Franklin street, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10x15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 7½ x 12½, or to the L, 20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assignd are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.—The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentiond to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points alterd, the essential character of the plan has remaind unchanged from the first. Doubtless

other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably faild to meet some objections which may be raisd, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involvd in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been renderd in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciativ criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless receivd suggestions and gaind ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential

features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangement of the St Louis Library has been followd. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hope that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

MELVIL DEWEY

NEW YORK STATE LIBRARY
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

First Summary

Classes

0. GENERAL WORKS
1. PHILOSOPHY
2. RELIGION
3. SOCIOLOGY
4. PHILOLOGY
5. NATURAL SCIENCE
6. USEFUL ARTS
7. FINE ARTS
8. LITERATURE
9. HISTORY

DIVISIONS.

000 General Works.
010 BIBLIOGRAPHY.
020 LIBRARY ECONOMY.
030 GENERAL CYCLOPEDIAS.
040 GENERAL COLLECTIONS.
050 GENERAL PERIODICALS.
060 GENERAL SOCIETIES.
070 NEWSPAPERS.
080 SPECIAL LIBRARIES. POLYGRAPHY.
090 BOOK RARITIES.

100 Philosophy.
110 METAPHYSICS.
120 SPECIAL METAPHYSICAL TOPICS.
130 MIND AND BODY.
140 PHILOSOPHICAL SYSTEMS.
150 MENTAL FACULTIES. PSYCHOLOGY.
160 LOGIC.
170 ETHICS.
180 ANCIENT PHILOSOPHERS.
190 MODERN PHILOSOPHERS.

200 Religion.
210 NATURAL THEOLOGY.
220 BIBLE.
230 DOCTRINAL THEOL. DOGMATICS.
240 DEVOTIONAL AND PRACTICAL.
250 HOMILETIC. PASTORAL. PAROCHIAL.
260 CHURCH. INSTITUTIONS. WORK.
270 RELIGIOUS HISTORY.
280 CHRISTIAN CHURCHES AND SECTS.
290 NON-CHRISTIAN RELIGIONS.

300 Sociology.
310 STATISTICS.
320 POLITICAL SCIENCE.
330 POLITICAL ECONOMY.
340 LAW.
350 ADMINISTRATION.
360 ASSOCIATIONS AND INSTITUTIONS.
370 EDUCATION.
380 COMMERCE AND COMMUNICATION.
390 CUSTOMS. COSTUMES. FOLK-LORE.

400 Philology.
410 COMPARATIVE.
420 ENGLISH.
430 GERMAN.
440 FRENCH.
450 ITALIAN.
460 SPANISH.
470 LATIN.
480 GREEK.
490 MINOR LANGUAGES.

500 Natural Science.
510 MATHEMATICS.
520 ASTRONOMY.
530 PHYSICS.
540 CHEMISTRY.
550 GEOLOGY.
560 PALEONTOLOGY.
570 BIOLOGY.
580 BOTANY.
590 ZOOLOGY.

600 Useful Arts.
610 MEDICINE.
620 ENGINEERING.
630 AGRICULTURE.
640 DOMESTIC ECONOMY.
650 COMMUNICATION AND COMMERCE.
660 CHEMICAL TECHNOLOGY.
670 MANUFACTURES.
680 MECHANIC TRADES.
690 BUILDING.

700 Fine Arts.
710 LANDSCAPE GARDENING.
720 ARCHITECTURE.
730 SCULPTURE.
740 DRAWING. DESIGN. DECORATION.
750 PAINTING.
760 ENGRAVING.
770 PHOTOGRAPHY.
780 MUSIC.
790 AMUSEMENTS.

800 Literature.
810 AMERICAN.
820 ENGLISH.
830 GERMAN.
840 FRENCH.
850 ITALIAN.
860 SPANISH.
870 LATIN.
880 GREEK.
890 MINOR LANGUAGES.

900 History.
910 GEOGRAPHY AND DESCRIPTION.
920 BIOGRAPHY.
930 ANCIENT HISTORY.
940 Modern. EUROPE.
950 ASIA.
960 AFRICA.
970 NORTH AMERICA.
980 SOUTH AMERICA.
990 OCEANICA AND POLAR REGIONS

GENERAL WORKS.

Limited to *none* of the nine classes.

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009

Left blank for local history or biography, etc., where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 Bibliography.
011 General Bibliographies.
012 Of Special Authors.
013 " " Classes of Authors.
014 " " Forms, Pseudonyms, etc.
015 " " Countries.
016 " " Subjects.
017 Subject Catalogs.
018 Author "
019 Dictionary. "

020 Library Economy.
021 Scope and Founding.
022 Buildings.
023 Government and Service.
024 Regulations for Readers.
025 Administration. Departments.
026 Special Subject Libraries, etc.
027 General Libraries. Reports, etc.
028 **Reading and Aids.**
029 **Literary Methods.**

030 General Cyclopedias.
031 American.
032 English.
033 German.
034 French.
035 Italian.
036 Spanish.
037 Slavic.
038 Scandinavian.
039 Minor Languages.

040 General Collected Essays, etc.
041 American.
042 English.
043 German.
044 French.
045 Italian.
046 Spanish.
047 Slavic.
048 Scandinavian.
049 Minor Languages.

050 General Periodicals.
051 American.
052 English.
053 German.
054 French.
055 Italian.
056 Spanish.
057 Slavic.
058 Scandinavian.
059 Minor Languages.

060 General Societies.
061 American.
062 English.
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064 French.
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066 Spanish.
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069 Minor Languages.

070 Newspapers. Journalism.
071 American.
072 English.
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074 French.
075 Italian.
076 Spanish.
077 Slavic.
078 Scandinavian.
079 Minor Languages.

080 Special Libraries. Polygraphy.
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Left blank to be used (if preferred to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i.e. are bound pamphlets, essays, addresses, scrap or note books, etc., too general in scope to go under any single class. Juveniles could be put here, but are better kept in a separate class, marked **J.**

090 Book Rarities.
091 Manuscripts.
092 Block Books.
093 Early Printed. Incunabula. See 655
094 Rare Printing. Privately Printed.
095 Rare Binding.
096 Rare Illustrations or Materials.
097 Ownership. Book Plates.
098 Prohibited. Lost. Imaginary.
099 Other Rarities. Curiosa.

PHILOSOPHY.

100 Philosophy.
101 Utility.
102 Compends.
103 Dictionaries.
104 Essays.
105 Periodicals.
106 Societies.
107 Education.
108 Polygraphy.
109 History.

110 Metaphysics.
111 Ontology.
112 Methodology.
113 Cosmology.
114 Space.
115 Time.
116 Motion.
117 Matter.
118 Force.
119 Quantity. Number.

120 Metaphysical Topics.
121 Knowledge, origin, and limits.
122 Causation. Cause and effect.
123 Liberty and Necessity.
124 Teleology. Final causes.
125 Infinite and finite.
126 Consciousness. Personality.
127 Unconsciousness. Automata.
128 The soul.
129 Origin of the individual soul.

130 Mind and Body.
131 Mental physiology and hygiene.
132 Mental derangements.
133 Delusions. Witchcraft. Magic.
134 Mesmerism. Clairvoyance.
135 Sleep. Dreams. Somnambulism
136 Mental Characteristics.
137 Temperaments.
138 Physiognomy.
139 Phrenology. Mental photography.

140 Philosophical Systems.
141 Idealism. Transcendentalism.
142 Critical.
143 Intuitionalism.
144 Empiricism.
145 Sensationalism.
146 Materialism. Positivism.
147 Pantheism. Monism.
148 Eclecticism.
149 Other philosophical systems.

150 Mental Faculties.
151 Intellect.
152 Sense.
153 Understanding.
154 Memory.
155 Imagination.
156 Reason.
157 Sensibility. Emotions.
158 Instincts.
159 Will.

160 Logic.
161 Inductive.
162 Deductive.
163 Assent.
164 Symbolic. Algebraic.
165 Sources of error. Fallacies.
166 Syllogism. Enthymeme.
167 Hypothesis.
168 Argument and persuasion.
169 Analogy. Correspondence.

170 Ethics.
171 Theory of ethics.
172 State ethics.
173 Family ethics.
174 Professional and business ethics.
175 Ethics of amusements.
176 Sexual ethics.
177 Social ethics.
178 Temperance.
179 Other ethical topics.

180 Ancient Philosophers.
181 Oriental.
182 Early Greek.
183 Sophistic and Socratic.
184 Platonic.
185 Aristotelian.
186 Pyrrhonist and New Platonist.
187 Epicurean.
188 Stoic.
189 Early Christian and medieval.

190 Modern Philosophers.
191 American.
192 British.
193 German.
194 French.
195 Italian.
196 Spanish.
197 Slavic.
198 Scandinavian.
199 Other modern.

RELIGION

200 Religion.
201 Philosophy. Theories.
202 Compends.
203 Dictionaries. Cyclopedias.
204 Essays. Lectures. Addresses.
205 Periodicals. Reviews.
206 Societies. Transactions.
207 Education. Theological Schools.
208 Polygraphy. Collections.
209 History of Theology.

210 Natural Theology.
211 Deism and Atheism.
212 Pantheism. Theosophy.
213 Creation. Evolution.
214 Providence. Theodicy. Fatalism.
215 Religion and Science.
216 Evil. Depravity.
217 Prayer.
218 Future Life. Immortality.
219 Analogies. Correspondences.

220 Bible.
221 Old Testament.
222 *Historical Books.*
223 *Poetical* ,,
224 *Prophetical* ,
225 New Testament.
226 *Gospels and Acts.*
227 *Epistles.*
228 *Apocalypse.*
229 Apocrypha.

230 Doctrinal. Dogmatics.
231 God. Unity. Trinity.
232 Christ. Christology.
233 Man. The Fall. Sin.
234 Salvation. Soteriology.
235 Angels. Devils. Satan.
236 Eschatology. Death. Judgment.
237 *Future State.*
238 Creeds. Confessions.
239 Apologetics.

240 Practical. Devotional.
241 Didactic. Catechisms.
242 Meditative.
243 Hortatory.
244 Devout miscellany. Fiction.
245 Hymnology. Religious Poetry.
246 Ecclesiology. Symbolism.
247 Sacred Furniture, Vessels, etc.
248 Personal Religion. Asceticism.
249 Family Devotions

250 Homiletic. Pastoral. Parochial.
251 Homiletics. Preaching.
252 Sermons.
253 Pastoral Visitations. Evangelistic.
254 Clerical Support. Celibacy.
255 Brotherhoods and Sisterhoods.
256 Societies for Parish Work. Guilds.
257 Parochial Schools, Libraries, etc.
258 Parish Care of Sick, Fallen, etc.
259 Other Ministrations and Work.

260 Church. Institutions. Work.
261 Church.
262 *Ecclesiastical polity.*
263 Sabbath. Lord's Day. Sunday.
264 Public Worship. Ritual.
265 Sacraments. Ordinances.
266 Missions. Home and Foreign.
267 Associations. Y. M. C. A., etc.
268 Sunday Schools.
269 Revivals. Retreats.

270 Religious History.
271 Monastic Orders.
272 Persecutions.
273 Doctrines. Dogmas. Heresies.
274 Europe.
275 Asia.
276 Africa.
277 North America.
278 South America.
279 Oceanica.

280 Christian Churches & Sects.
281 Primitive and Oriental.
282 Roman Catholic.
283 Anglican and American P. E.
284 Continental Protestant.
285 Presbyterian. Congregational.
286 Baptist.
287 Methodist.
288 Unitarian.
289 Minor Christian Sects.

290 Ethnic. Non-Christian.
291 Comparative & General Mythology.
292 *Greek and Roman Mythology.*
293 *Teutonic and North'n Mythology.*
294 Brahmanism. Buddhism.
295 Parseeism.
296 Judaism.
297 Mohammedanism.
298 Mormonism.
299 Minor Non-Christian Religions.

SOCIOLOGY

300 Sociology.
301 Philosophy of Civilization.
302 Compends.
303 Dictionaries.
304 Essays.
305 Periodicals.
306 Societies.
307 Education.
308 Polygraphy.
309 History of Sociology.

310 Statistics.
311 Theory. Methods. Science of.
312 Population. Progress. Vital.
313 Special Topics.
314 Europe.
315 Asia.
316 Africa.
317 North America.
318 South America.
319 Oceanica.

320 Political Science.
321 Form of State.
322 Church and State.
323 Internal or Domestic Relations.
324 Suffrage.
325 Colonies and Immigration.
326 Slavery.
327 Foreign Relations.
328 Legislative Bodies and Annals.
329 Political Parties.

330 Political Economy.
331 Capital. Labor. Wages.
332 Banks. Money. Credits. Interest.
333 Land. Ownership. Rights and Rent.
334 Co-operation.
335 Socialism and Communism.
336 Finance. Public Funds. Taxation.
337 Protection and Free Trade.
338 Production and Manufactures.
339 Pauperism.

340 Law.
341 International Law.
342 Constitutional Law.
343 Criminal Law.
344 Martial Law.
345 American Statutes and Cases.
346 British Statutes and Cases.
347 Treatises. American and British.
348 Canon Law.
349 Foreign Law. Roman.

350 Administration. War.
351 Civil Service.
352 Local Government. City. Town.
353 United States and State.
354 Foreign States.
355 Army. Military Science. See 623.
356 *Infantry.*
357 *Cavalry.*
358 *Artillery.*
359 Navy. Naval Science. See 623.8.

360 Associations. Institutions.
361 Charitable.
362 Hospitals. Asylums.
363 Political.
364 Reformatory.
365 Prisons. Discipline.
366 Secret Societies.
367 Social Clubs.
368 Insurance.
369 Other.

370 Education.
371 Teachers, Methods, and Discipline.
372 Elementary.
373 Higher.
374 Self-education and Culture.
375 Curriculum.
376 Of Women.
377 Religious, Ethical, and Secular.
378 Colleges and Universities.
379 Public-School System.

380 Commerce, Communication.
381 Domestic Trade.
382 Foreign Trade. Consular Reports.
383 Post Office.
384 Telegraph. Cable. Telephone.
385 Railroad and Express.
386 Canal and Highway Transportation.
387 River and Ocean Transportation.
388 City Transit. See 625.
389 Weights and Measures. Metrology.

390 Customs. Popular Life.
391 Costume and Care of Person.
392 Birth. Home and Sex Customs.
393 Treatment of Dead.
394 Public and Social Customs.
395 Etiquette.
396 Woman's Position and Treatment.
397 Gipsies.
398 Folk-lore. Proverbs, etc.
399 Customs of War.

PHILOLOGY

400 Philology.
401 Philosophy.
402 Compends.
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405 Periodicals.
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407 Study and Teaching.
408 Polygraphy.
409 History.

410 Comparative.
411 Orthography.
412 Etymology.
413 Dictionaries.
414 Phonology.
415 Grammar.
416 Prosody.
417 Inscriptions.
418 Texts.
419 Hieroglyphics.

420 English.
421 Orthography.
422 Etymology.
423 Dictionaries.
424 Synonyms.
425 Grammar.
426 Prosody.
427 Dialects.
428 School Texts.
429 Anglo-Saxon.

430 German.
431 Orthography
432 Etymology.
433 Dictionaries.
434 Synonyms.
435 Grammar.
436 Prosody.
437 Dialects.
438 School Texts.
439 Minor Teutonic.

440 French.
441 Orthography.
442 Etymology.
443 Dictionaries.
444 Synonyms.
445 Grammar.
446 Prosody.
447 Dialects.
448 School Texts.
449 Provençal.

450 Italian.
451 Orthography.
452 Etymology.
453 Dictionaries.
454 Synonyms.
455 Grammar.
456 Prosody.
457 Dialects.
458 School Texts.
459 Rumansh and Wallachian.

460 Spanish.
461 Orthography.
462 Etymology.
463 Dictionaries.
464 Synonyms.
465 Grammar.
466 Prosody.
467 Dialects.
468 School Texts.
469 Portuguese.

470 Latin.
471 Orthography.
472 Etymology.
473 Dictionaries.
474 Synonyms.
475 Grammar.
476 Prosody.
477 Dialects.
478 School Texts.
479 Minor Italic.

480 Greek.
481 Orthography.
482 Etymology.
483 Dictionaries.
484 Synonyms.
485 Grammar.
486 Prosody.
487 Dialects.
488 School Texts.
489 Minor Hellenic.

490 Minor Languages.
491 Minor Indo-European.
492 Semitic.
493 Hamitic.
494 Scythian.
495 Eastern Asiatic.
496 African.
497 North American.
498 South American.
499 Malay-Polynesian and other.

NATURAL SCIENCE

500 Natural Science.
501 Philosophy.
502 Compends, Outlines.
503 Dictionaries, Cyclopedias.
504 Essays, Lectures, Addresses.
505 Periodicals.
506 Societies, Transactions, etc.
507 Education, Teaching.
508 Polygraphy, Collected Works.
509 History.

510 Mathematics.
511 Arithmetic.
512 Algebra.
513 Geometry, Conic Sections.
514 Trigonometry.
515 Descriptive Geometry.
516 Analytical Geometry, Quaternions.
517 Calculus.
518
519 Probabilities.

520 Astronomy.
521 Theoretical.
522 Practical and Spherical.
523 Descriptive.
524 Maps and Observations.
525 Earth.
526 Geodesy.
527 Navigation.
528 Ephemerides.
529 Chronology.

530 Physics.
531 Mechanics.
532 Liquids, Hydraulics.
533 Gases, Pneumatics.
534 Sound, Acoustics.
535 Light, Optics.
536 Heat.
537 Electricity.
538 Magnetism.
539 Molecular Physics.

540 Chemistry.
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542 Practical and Experimental
543 Analysis.
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545 *Quantitative.*
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549 Mineralogy.

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552 Lithology, Petrography.
553 Economic Geology.
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556 Africa.
557 North America.
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559 Oceanica.

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561 Plants.
562 Invertebrates.
563 *Protozoa. Radiates.*
564 *Mollusks.*
565 *Articulates.*
566 Vertebrates.
567 *Fishes. Batrachia*
568 *Reptiles. Birds.*
569 *Mammals.*

570 Biology. Ethnology.
571 Prehistoric Archæology.
572 Ethnology.
573 Natural History of Man.
574 Homologies.
575 Evolution. Species.
576 Origin and Beginnings of Life.
577 Properties of Living Matter.
578 Microscopy.
579 Collectors' Manuals.

580 Botany.
581 Physiological and Structural.
582 Phanerogamia.
583 *Dicotyledonæ.*
584 *Monocotyledonæ.*
585 *Gymnospermæ.*
586 Cryptogamia.
587 *Pteridophyta.*
588 *Bryophyta.*
589 *Thallophyta.*

590 Zoology.
591 Physiological Zoology.
592 Invertebrates.
593 *Protozoa. Radiates.*
594 *Mollusks.*
595 *Articulates.*
596 Vertebrates.
597 *Fishes. Batrachia.*
598 *Reptiles. Birds.*
599 *Mammals.*

USEFUL ARTS

600 Useful Arts.
601 Philosophy.
602 Compends.
603 Dictionaries. Cyclopædias.
604 Essays. Lectures. Addresses.
605 Periodicals. Magazines. Reviews.
606 Societies. Fairs. Exhibitions.
607 Education. Schools of Technology.
608 Patents.
609 History of Useful Arts.

610 Medicine.
611 Anatomy.
612 Physiology.
613 Hygiene. Gymnastics. Training.
614 Public health. See also 628, San. Eng.
615 Materia medica. Therapeutics.
616 Pathology. Diseases. Treatment.
617 Surgery. Dentistry.
618 Diseases of Women and Children.
619 Comparative Medicine. Veterinary.

620 Engineering.
621 Mechanical.
622 Mining.
623 Military.
624 Bridge and Roof.
625 Road and Railroad.
626 Canal.
627 River and Harbor.
628 Sanitary. Water-works.
629 Other branches.

630 Agriculture.
631 Soil. Fertilizers. Drainage.
632 Pests. Hindrances. Blights. Insects.
633 Grains. Grasses. Fibres. Tea, etc.
634 Fruits. Orchards. Vineyards.
635 Kitchen Garden. See 716, Flowers.
636 Domestic animals.
637 Dairy. Milk. Butter. Cheese.
638 Bees. Silkworms.
639 Fishing. Trapping.

640 Domestic Economy.
641 Cookery. Gastronomy.
642 Confectionery. Ices.
643 Food. Dining. Carving.
644 Fuel. Lights. See also 697, 665, 621.32.
645 Furniture. Carpets. Upholstery.
646 Clothing. Toilet. Cosmetics.
647 Servants. Training. Duties. Wages.
648 Laundry.
649 Nursery. Children. Sick-room

650 Communication. Commerce.
651 Writing. Cipher. Typewriters.
652 *Penmanship. Materials. Methods.*
653 *Short hand. Abbreviations.*
654 Telegraphy. Cables. Signals.
655 Printing. Type. Stereos. Publishing.
656 Transportation. Railroading, etc.
657 Book-keeping. Accounts.
658 Business manuals. Methods. Tables.
659 Advertising and other topics.

660 Chemical Technology.
661 Chemicals; Salts, Paints, etc.
662 Pyrotechnics. Explosives.
663 Beverages; Wines, Liquors, Ales, etc.
664 Foods; Sugar, Starch, etc.
665 Lights; Gas, Oil, Candles, etc.
666 Ceramics, Glass, Clay, Cement, etc.
667 Bleaching. Dyeing. Inks.
668 Other organic chemical industries.
669 Metallurgy. Assaying.

670 Manufactures.
671 Articles made of Metals.
672 *Of Iron and Steel; Stoves, Cutlery, etc.*
673 *Of Brass and Bronze; Bells, etc.*
674 Lumber and articles made of wood.
675 Leather " " " leather.
676 Paper " " " paper.
677 Cotton, Wool, Silk, Linen, etc.
678 Rubber and articles made of rubber.
679 Celluloid and other.

680 Mechanic Trades.
681 Watch and Instrument-making.
682 Blacksmithing. Horseshoeing.
683 Lock and Gun-making.
684 Carriage and Cabinet-making.
685 Saddlery and Shoe-making. Trunks.
686 Book-binding.
687 Clothes-making. Hats.
688
689 Other trades.

690 Building.
691 Materials. Timber, Stone, etc. See 620.1
692 Plans and Specifications.
693 Masonry. Plastering, etc.
694 Carpentry. Stair-building.
695 Slating and Tiling.
696 Plumbing. Gas and Steam-fitting.
697 Warming and Ventilation.
698 Painting, Glazing. Paper-hanging.
699 Car and Ship-building. See 623.8.

FINE ARTS

700 Fine Arts.
701 Philosophy. Æsthetic.
702 Compends.
703 Dictionaries.
704 Essays. Addresses.
705 Periodicals.
706 Societies.
707 Education. Study. Teaching.
708 Art Galleries.
709 History of Art.

710 Landscape Gardening.
711 Public Parks.
712 Private Grounds. Lawns.
713 Walks. Drives.
714 Water. Fountains. Lakes.
715 Trees. Hedges. Shrubs.
716 Plants. Flowers. Conservatories.
717 Arbors. Seats. Outlooks.
718 Monuments.
719 Cemeteries. See also 393.

720 Architecture.
721 Architectural Construction.
722 Ancient and Oriental.
723 Medieval. Gothic.
724 Modern.
725 Public Buildings.
726 Ecclesiastical and Religious.
727 Educational and Scientific.
728 Residences.
729 Design and Decoration.

730 Sculpture.
731 Materials and Methods.
732 Ancient.
733 *Greek and Roman*
734 Medieval.
735 Modern.
736 Carving. Seals. Dies. Gems.
737 Numismatics. Coins. Medals.
738 Pottery. Porcelain.
739 Bronzes. Bric-a-brac.

740 Drawing. Decoration.
741 Free-hand. Crayon.
742 Perspective. See also 515.6.
743 Art Anatomy.
744 Mathematical Drawing. See 515.
745 Ornamental Design. Carpet, etc.
746 *Art Needlework.*
747 *Interior Decoration.*
748 *Stained and Iridescent Glass.*
749 Artistic Furniture.

750 Painting.
751 Materials and Methods.
752 Color.
753 Epic. Mythic. Idealistic.
754 Genre. Still Life.
755 Religious. Ecclesiastic.
756 Historical. Battles, etc.
757 Portrait.
758 Landscape. Marine.
759 Various Schools.

760 Engraving.
761 Wood.
762 Copper. Steel.
763 Lithography.
764 Chromolithography.
765 Line. Stipple.
766 Mezzotint. Aquatint.
767 Etching. Dry Print.
768 Bank Note. Machine.
769 Collections of Engravings.

770 Photography.
771 Photographic Chemistry.
772 Silver processes, etc.
773 Gelatine and Pigment processes.
774 Albertype, and Printer's Ink.
775 Photolithography.
776 Photozincography, etc.
777 Photo-engraving. Photo-electros.
778 Special Applications.
779 Collections of Photographs.

780 Music.
781 Theory.
782 Dramatic.
783 Sacred.
784 Vocal.
785 Orchestral.
786 Piano and Organ.
787 Stringed Instruments.
788 Wind „
789 Other „

790 Amusements.
791 Public Entertainments.
792 *Theater. Opera.*
793 In-door Amusements.
794 *Games of skill. Chess.*
795 *Games of chance. Cards.*
796 Out-door Sports.
797 *Boating and Ball.*
798 *Horsemanship. Racing.*
799 *Fishing. Hunting. Shooting.*

LITERATURE

800 Literature.
801 Philosophy.
802 Compends.
803 Dictionaries.
804 Essays.
805 Periodicals.
806 Societies.
807 Study and Teaching.
808 Treatises, Rhetoric.
809 History.

810 American Literature.
811 „ Poetry.
812 „ Drama.
813 „ Fiction.
814 „ Essays.
815 „ Oratory.
816 „ Letters.
817 „ Satire, Humor.
818 „ Miscellany.
819

820 English Literature.
821 „ Poetry.
822 „ Drama.
823 „ Fiction.
824 „ Essays.
825 „ Oratory.
826 „ Letters.
827 „ Satire, Humor.
828 „ Miscellany.
829 Anglo-Saxon Literature.

830 German Literature.
831 „ Poetry.
832 „ Drama.
833 „ Fiction.
834 „ Essays.
835 „ Oratory.
836 „ Letters.
837 „ Satire, Humor.
838 „ Miscellany.
839 Minor Teutonic Literatures.

840 French Literature.
841 „ Poetry.
842 „ Drama.
843 „ Fiction.
844 „ Essays.
845 „ Oratory.
846 „ Letters.
847 „ Satire, Humor.
848 „ Miscellany.
849 Provençal Literature.

850 Italian Literature.
851 „ Poetry.
852 „ Drama.
853 „ Fiction.
854 „ Essays.
855 „ Oratory.
856 „ Letters.
857 „ Satire, Humor.
858 „ Miscellany.
859 Rumansh and Wallachian.

860 Spanish Literature.
861 „ Poetry.
862 „ Drama.
863 „ Fiction.
864 „ Essays.
865 „ Oratory.
866 „ Letters.
867 „ Satire, Humor.
868 „ Miscellany.
869 Portuguese Literature.

870 Latin Literature.
871 „ Poetry.
872 *Dramatic.*
873 *Epic.*
874 *Lyric.*
875 „ Oratory.
876 „ Letters.
877 „ Satire, Humor.
878 „ Miscellany.
879 Minor Italic Literatures.

880 Greek Literature.
881 „ Poetry.
882 *Dramatic.*
883 *Epic.*
884 *Lyric.*
885 „ Oratory.
886 „ Letters.
887 „ Satire, Humor.
888 „ Miscellany.
889 Minor Hellenic Literatures

890 Minor Languages.
891 Minor Indo-European.
892 Semitic.
893 Hamitic.
894 Scythian.
895 Eastern Asiatic.
896 African.
897 North American.
898 South American.
899 Malay-Polynesian and other.

HISTORY

900 History.
901 Philosophy.
902 Compends. Chronology.
903 Dictionaries.
904 Essays.
905 Periodicals.
906 Societies.
907 Study and Teaching.
908 Polygraphy.
909 Universal Histories.

910 Geography and Description.
911 Historical.
912 Maps.
913 Antiquities.
914 Europe.
915 Asia.
916 Africa.
917 North America.
918 South America.
919 Oceanica. Polar Regions.

920 Biography.
921 Of Philosophy.
922 „ Theology.
923 „ Sociology.
924 „ Philology.
925 „ Science.
926 „ Useful Arts.
927 „ Fine Arts.
928 „ Literature.
929 Genealogy. Heraldry.

930 Ancient History.
931 Chinese.
932 Egyptian.
933 Jewish.
934 Indian.
935 Medo-Persian.
936 Keltic.
937 Roman.
938 Greek.
939 Minor Countries.

940 Europe.
941 Scotland. Ireland.
942 England. Wales.
943 Germany. Austria.
944 France.
945 Italy.
946 Spain. Portugal.
947 Russia.
948 Norway. Sweden. Denmark.
949 Minor Countries.

950 Asia.
951 China.
952 Japan.
953 Arabia.
954 India.
955 Persia.
956 Turkey in Asia.
957 Siberia.
958 Turkistan. Afghanistan. Beloochistan.
959 Farther India.

960 Africa.
961 North Africa.
962 Egypt. Nubia.
963 Abyssinia.
964 Morocco.
965 Algeria.
966 North Central Africa.
967 South Central Africa.
968 South Africa.
969 Madagascar.

970 North America.
971 British America.
972 Mexico. Central America.
973 United States.
974 North Atlantic States.
975 South Atlantic States.
976 South Central or Gulf States.
977 Northeast Central or Lake „
978 West Central or Mountain „
979 Pacific States

980 South America.
981 Brazil.
982 Argentine Republic.
983 Chili.
984 Bolivia.
985 Peru.
986 Colombia. Ecuador.
987 Venezuela.
988 Guiana.
989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.
991 Malaysia.
992 Sunda.
993 Australasia.
994 Australia.
995 New Guinea.
996 Polynesia.
997 Isolated Islands.
998 Arctic Regions.
999 Antarctic Regions.

Complete Tables

INCLUDING ALL THE

SUB-SECTIONS

General works

010 Bibliography.

.1, Theory, Utility, etc.; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training, see also 020.7; .8, Polygraphy; .9, History.

011 General Bibliographies. Universal Catalogs.

011 is by **Authors.** If by **Subjects** they go in 016.

012-016 include both bibliographies and catalogs. 017-019 is limited to catalogs of general collections.

012 Of Individual Authors.

Alphabeted by bibliographees, not by compilers; e. g. Chaucer, Dante, Ruskin, etc. Authors on whom special collections are being made (e. g. in 800s), attract their bibliographies to same number, leaving only a reference here.

013 Of Special Classes of Authors.

e. g. Books written by Jesuits, by Catholics, by members of the Bavarian academy, etc. or these may go with the bibliography of the church, society, etc., with references here.

014 Of Special Forms. Anonyms, Pseudonyms, etc.

.1, American; .2, English; .3, German, etc.

015 Of Special Countries.

Books published in the country. Publishers' lists, current publications. Subdivided by countries like 940-999; e. g. 015.42, Bibliography of books published in England, as Lowndes or English Catalog.

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc., goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, though the literary history of some special class is 013.

016 Of Special Subjects.

Subdivided like the main classification, from 000-999; e. g 016.01, Bibliography of bibliographies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

Library and Sale Catalogs.

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017-019 therefore includes only catalogs of general collections, limited to no one class or subject.

017 Classed Catalogs. Systematic or Logical.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

For all forms of alphabetical subject catalogs, see 019. See 016 for Bibliographies.

018 Author Catalogs. See 011 for Bibliographies.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronological, and any other forms (except subject and dictionary) of catalogs of collections.

019 Dictionary Catalogs. Alphabetico-classed, etc.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

020 Library Economy.

.1, Coöperation; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

021 Scope and Founding of Libraries.

.1 **Scope and Usefulness.** See 331.85 for Laboring classes.

.2 **Library as an Educator; as People's University.**

.3 **Library in Relation to Schools and the Young.**
See 371.64 and 027.8, School libraries.

.4 **Library Lectures, Museums, Galleries, etc.**

.5 **Library as a Public Recreation.**

.6 **Founding. Extension.**

.7 **Developing Interest; by Press, Lectures, School, Pulpit, Societies, Circulars, etc.**

.8 **Legislation; State and Local.**

.9 **Raising Funds. Securing Gifts of Books, etc.**
Subscriptions, bequests, lectures, fairs, membership fees, taxes, government aid (remitted duties, public documents, foreign exchanges, etc.).

022 Buildings. See also 727.8, Architecture.

.1 **Location. Provision for Growth. Branches. Deliveries.**

.2 **Materials and Protection against Fire. Library Fires.**

.3 **Plans. Number, Size, and Arrangement of Rooms.**
See 729.2.

.4 **Storage Rooms. Stacks. Alcoves. Galleries.**

.5 **Reading Rooms. Central Halls. Small Study Rooms.**

.6 **Administration and Special Rooms.**
Cataloging, office, patent, newspaper, public document, duplicate, class, lecture, museum, art, chess, conversation, waiting, coat, toilet, etc.

.7 **Lighting. Natural and Artificial. Electric, Gas, etc.**
See 621.32, Electric lighting.

.8 **Heating and Ventilation as Affecting Books.**
See 697, Building, Heating, etc. See 621.19, 628.8.

.9 **Fixtures. Furniture and Fittings. Shelving, Counters, Hoists, Desks, Tables, Chairs, etc.**

023 Government and Service.

.1 Constitution and By-Laws for Managers.

.2 Appointment and Tenure of Officers.

.3 Trustees. Committees. Directors.

.4 Chief Librarian. Qualification. Duties. See 920.2, Lives.

.5 Staff. Assistants, Catalogers, Janitor.

.6 Daily Hours. Vacations.

.7 Titles and Duties.

.8 Salaries.

.9 Rules for Staff.

024 Regulations for Readers.

.1 Readers' Qualifications.
User's age, Residence, Guarantees, References, Registration.

.2 Fees and Assessments. Free Use. See 027.2; 027.4.

.3 Hours of Opening. Evening Opening.

.4 Closing. Sunday, Holiday, Vacation, Examination.
See 263.7, Sunday; 025.8, Examination.

.5 Reference Use.
Access to Catalogs, Librarians, and Shelves. Reading-Room Rules. Decorum in Library.

.6 Home Use.
Number of Books, Time, Delinquencies, Fines, Re-lending, Restrictions, Renewals.

.7 Special Privileges to Readers.
Extra Books. Extra Time. Reservations. Suspension of Rules. Excuses.

.8 Injuries. Defacements. Mutilations. Losses. Thefts.

.9 Other Regulations for Users.

025 Administration. Departments.

025 is for the librarian's part. The trustees build and furnish (022); make rules for government and service (023), and regulations for readers (024); but the administration involves questions of its own, which, however, are closely allied to topics in 021–024 and elsewhere; e.g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder's craft (686).

Administration includes .1, Supervision; .2, Acquisition; .3–6, Utilization; .7–9, Preservation; i. e. the librarian's duty to books is to Get, Use, Keep.

.1 Executive. General supervision.
Finances, accounts, salaries (see 023.8); Supplies, printing; Publications, statistics, reports, bulletins; Relations to readers, permits, privileges, visitors; Correspondence.

.2 Accession. Acquisition.
Selecting and buying books, serials, pamphlets, ephemera; Prices, discounts, duty free importation (see 337.8); Auctions, old book lists; Sale duplicates, exchanges, gifts (see also 021.9); Reception, checking bills, collation; Plating, pocketing, embossing, private marking; Accessioning; Order slips, index and book, order and serial blanks.

.3 Catalog. For printed catalogs themselves, see 017–019. This is for *cataloging*.
Printed, manuscript, or card; Author, subject, title, classed; Dictionary or combined; Coöperative rules; Size notation; Coöperative cataloging; Duplicated titles, print or photography; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels.

.4 Classification.
For philosophical classification of knowledge, see 112, Methodology. This is for practical classing of books, pamphlets, and notes, rather than theoretical speculation.
On shelves; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close *vs.* broad classing; Mnemonic features; Basis of division; Co-ordination of special subjects.

.5 Reference. Reference books. Aids to readers.
See 028 for general discussion of reading and aids. This is limited to library administration.

.6 Loan. See 024.1 and 024.6 for regulations.
Indicators; Charging systems, legers *vs.* cards; Book cards, marks, pockets; Call slips, readers' cards; Notices, reserves; Registers; Inter-library loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 Binding and repair. See also 686, Bookbinding.
Materials, durability, tight *vs.* spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling.

.8 Shelf. See 022.9, Shelving.
Arrangement; Shelf numbers; Shelf and book labels; Fixed and relative locations; Sizes on shelves; Arrangement and preservation of public documents, pamphlets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Injuries, heat, gas, insects; Stock taking; Shelf lists.

.9 Building. Care, cleaning, safety. Janitor. Police.
See 022 for building and fittings. This is janitor's department.

026 Libraries on special subjects.

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in one of the sections above. Subdivided by adding the class number of subject; e. g. a Medical Library is 026.61; a Chess Library, 026.794; but the Catalog of a Chess Library is 026.794; Blanks, etc., from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026-7, thus making a complete set of its publications.

027 General libraries.

This includes both circulating and reference; i. e. all not limited to special subjects. Subdivided if wished by countries, like 930-999; e. g. 027.744, College libraries in France. Or if wished, group all by geographical location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044, Libraries of France; 027.07471, Libraries of N. Y. City.

A private library is still classed 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change.

.1 Private and family.

.2 Proprietary, Society, Club and Athenæum.

.2 is limited to libraries that are semi-private, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantile library, even though it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2.

.3 Subscription. Circulating. e. g. Mudie's, etc.

.4 Free public. Rate supported. Endowed. See 331.85.

.5 State and government.

.6 For special classes.

Institution, prison, reformatory, asylum, monastic, workmen's, factory, railroad, sailors, lighthouse, itinerating. A workmen's library of books on engineering goes 026.62, not here, as the subject is more useful than the class of readers.

.7 College.

.8 School. Sunday-school. Parish. See also 371.64; 021.3.

.9 Free news-rooms and reading-rooms. See also 331.85.

028 Reading and aids.

See 374.1-2, Self education by private reading and reading circles.

.1 Methods.

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking.

.2 Choice of editions. Annotations, indexes, paper, type.

.3 Courses of reading.

.4 Fiction. Novel reading.

.5 Reading of young. Juveniles.

.6 Professorships of books and reading.

Lectures. Stimulus and guidance in schools.

.7 Use of reference books.

.8 Aids to readers. Guidance, printed or personal, see also 028.6 and 025.5.

.9 Character of reading in libraries.

029 Literary methods and labor-savers.

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best served by referring to 025 and 028 instead of repeating the heads.

.1 Methods. e. g. Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); coöperative methods; records *vs.* memory, etc.

See 653, abbreviations and shorthand; 154.1, mnemonics; 025.4, classification.

.1 is for what one *learns* how to do by an improved *method*.

.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature.

.2 Appliances. Labor-saving tools and devices. See also 651.

Most literary labor-saving devices go also under 651, Office equipment and methods; and are best kept together there; e. g. all office and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc., cases, see 025.8; for binders, 025.7.

.3 Clippings. Scrapbooks or files. See also Files 651.

.4 Notebooks, notetaking, abstracting, etc.

.5 Indexing. Index rerums. Printed and patent indexes.

For alfabeting and transliteration see 025.3.

.6 Authorship. Writing for press. Copy and proof.

See also 655.25 Proofreading; 655.52 Relations to publishers.

.7

.8

.9

The Divisions 030–070 below are all subdivided; 1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other.

030 General cyclopedias.

040 General collected essays.

050 General periodicals. Magazines.

060 General societies. Transactions.

e. g. Academies of Paris, Berlin, Vienna, etc.

070 General newspapers. Journalism.

In large collections use geographical divisions under 1, American; 2, English, etc., as in 970 and 940–9. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where published. They could not go on shelves with ordinary sized books, and a reference is made as easily to them under 070 as anywhere.

080 Special libraries. Polygraphy.

090 Book rarities.

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts. Autographs.

Photographs of mss. go with subject rather than here.
For Diplomatics and Palæography, see 417, and under the special language, 421.7, 431.7, etc.

092 Block books.

093 Early printed books. Incunabula.

094 Rare printing.

Aldines, Elzevirs, Caxtons, etc.; Privately printed books; Unique books.

095 Rare binding.

Noted binders, costly ornament, curious bindings.

096 Rare illustrations or materials.

Illuminated. Illustrated by inserted plates. Printed on vellum, silk, bark, etc., in gold or silver letters, etc.

097 Ownership. Book plates. Ex libris.

098 Prohibited. Lost. Imaginary.

099 Other rarities. Curiosa. Minute size, etc.

No. for Subconscious self (Hume)
" Suggestion "

Philosophy.

100 Philosophy in General.

Works limited to none of the nine Divisions.

101 Utility.

102 Compends, Outlines.

103 Dictionaries, Cyclopedias.

104 Essays, Lectures, Addresses.

105 Periodicals, Philosophical Magazines.

106 Societies, Transactions, etc.

107 Study and Teaching of Philosophy.

108 Polygraphy, Extracts, Maxims, etc.

109 History of Philosophy. General (Dayton lib)

110 Metaphysics.

111 Ontology.

Nature of Being. Substance and Form.

112 Methodology.

Philosophical Classification of Knowledge. Terminology. For Book Classification see 025.4

113 Cosmology.

114 Space.

115 Time.

116 Motion.

117 Matter.

118 Force.

119 Quantity. Number.

Needs rev. (Gifford)

120 (Other) Metaphysical Topics.

.1 Christian science
.2 Mental "
Dout merry phil. (Wheatley)

121 Theory of Knowledge. Origin. Limits.

122 Causation. Cause and Effect.

123 Liberty and Necessity.
See also 233.7, Freedom; 234.9, Predestination; 159, Will.

124 Teleology. Final Causes.

125 Infinite and Finite.

Shld go under 150 or at least 130 (Rathbone)

126 Consciousness. Personality. See 233.6, Doctrine

127 Unconsciousness. Automata.

128 The Soul. See 218, Natural theology; 237, Future state.

129 Origin of the Individual Soul.

.1 By Special Creation. See 213, Creation.

.2 By Inheritance. Traduction.
See 575.1, Evolution; 136.3, Mental heredity; 233.3, Spiritual heredity.

.3 Pre-existence.

.4 Transmigration. Palingenesis.

.5 Emanation. See also 147, Pantheism; 212, Natural theology.

130 Mind and Body. Psychical (Crevar) Anthropology.

131 Mental Physiology and Hygiene. Incl. Brain functions & hygie (Dayton)
For influence of mind on body, mind cure, etc., see 615.851; see also 613.8, Hygiene of nervous system.

132 Mental Derangements. Intellectual fatigue (Lyster) Christian science (Crevar)
Incl. Mental pathology (Dayton)

.1 Insanity. See 362.2, Asylums; 920.8, Lives; 616.84, Disease.

.2 Idiocy. See 362.3, Asylums; 920.8, Lives; 371.93, Education.

.3 Hypochondria. Melancholy. See 616.852, Hysteria.

.4 Catalepsy. See 616.852, Hysteria.

.5 Ecstatics.

.6 Kleptomania and other leading to crime.

.7 Dipsomania and other leading to vice.
See also 178, Temperance; 616.861, Alcoholism.

.8 Mnemonic derangements.
Not knowing in one state what passed in another. See 154, Memory.

.9 Criminology (Crevar)

Occult science (Wheatley)

133 Delusions. Witchcraft. (Handy) Magic.

.1 Apparitions. Ghosts. Incl. Astral body (Dayton)

.2 Hallucinations.

.3 Divination. Oracles. Second Sight. Omens. Predictions.

.4 Witchcraft. Sorcery. See 272.8, Persecutions.

.5 Astrology. See also 520.1, Astrology.

.6 Palmistry.

.7 Humbugs. Quackery.

.9 Spiritism. Table-tipping, etc. See also 289.9, Sects.

134 Mesmerism. Animal Magnetism. Clairvoyance.
Thought transference, telepathy (Lowell lib. has subd.) (Daniels)

135 Sleep. Dreams. Somnambulism.

136 Mental Characteristics.
See also 131, Mental physiology.

As Influenced by

.1 Sex. See 376.2, Mental capacity of women.

.2 Physical Surroundings. Climate etc.?
See 575.3, Evolution; 573.4, Natural history of man.

.3 Ancestry (Mental Heredity). See 575.1, Evolution; 233.3, Spiritual heredity; 129.2, Origin of soul; 613.92, Hygiene.

.4 Race. Racial Characteristics. See 572, Ethnology.

Shld study etc. .5 ~150

.5 Age.

.6 Physical Structure and Conditions.
Effect on character

137 Temperaments. of individual rather than race or nation (Dayton)

138 Physiognomy.

139 Phrenology. Mental Photographs, etc.

.5 Graphology (Berry)

Title used. Works about various systems, go in 140 (Dayton)

140 Philosophical Systems.

140 & 150 shld change places (Rathbone)

The heads 140–149.9 are for the discussion of the systems as such. The philosophical works of authors of these various schools are classed under 190, not here. From these heads refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system.

141 Idealism. Transcendentalism. e. g. Plato, see 184.1, 884.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36. Nietzsche?

142 Critical Philosophy. e. g. Kant, see 193.2. Monadology? (Lyster)

143 Intuitionalism. e. g. Reid, see 192.5; McCosh, see 191.5.
See also 156, Intuitive faculty; 171.2, Ethics.

144 Empiricism. e. g. Descartes, see 194.1; Bacon, see 192.1.

145 Sensationalism. e. g. Locke, see 192.2.

146 Materialism. Positivism. e. g. Hobbes; Comte, see 194.8.
See also 149.2, Realism.

.1 Comte's works
.2 Works about Comte (Lyster)

147 Pantheism. Monism. e. g. Spinoza. See 212, Natural theology.

148 Eclecticism. e. g. Cousin, see 194.7.

149 Other Philosophical Systems.
See 211, Rationalism, Scepticism; 214, Fatalism.

.1 Nominalism.

.2 Realism. See 146, Materialism.

.3 Mysticism. See 273.2, Heresies; 189.5, Medieval philosophy.

.4 Associationalism.

.5 Optimism. Meliorism.

.6 Pessimism. e. g. Schopenhauer, see 193.7.
See also 216, Evil; 233, Doctrine of man.

.7 Agnosticism. See 273.8, Agnostic heresy.

.8 Nihilism.

.9 Other Systems.

"New thought" lit. here or under 147? (Rathbone)

150 Mental Faculties. Psychology.

For mind in animals, see 591.51.

151 Intellect. Capacity for Knowing.

.1 Genius.

152 Sense. Sense Perceptions.

Passive or Receptive Faculty.

.1 Vision.

.2 Hearing.

.3 Smell.

.4 Taste.

.5 Touch.

.6 Muscular Sense.

153 Understanding.

Active or Thinking Faculty.

.1 Conception. The Concept or Notion.

.2 Association.

.3 Abstraction.

.4 Reflection.

.5 Judgment.

.6 Reasoning. Induction and Deduction. See 160, Logic.

154 Memory. Reproductive power.

See 132.8, Mnemonic derangements.

.1 Mnemonics.

155 Imagination. Creative Power.

.1 Fancy. Imaging Power.

156 Intuitive Faculty. Reason. For Reasoning, see 153.6.

157 Sensibility. Emotions. Affections.

158 Instincts. Appetites.

159 Will.

160 Logic. Dialectics.

See 153.6, Reasoning power. For logic of chance, see 519, Probabilities.

161 Inductive.

162 Deductive.

163 Assent. Faith. See also 234.2, Doctrinal theology.

164 Symbolic. Algebraic. Logical machines.

Logical topics.

165 Sources of error. Fallacies.

166 Syllogism. Enthymeme.

167 Hypotheses.

168 Argument and persuasion.

169 Analogy. Correspondence. See also 219, Natural theology.

170 Ethics. Theoretical and applied.

Many topics in applied ethics occur also in law, specially in 343, Criminal law. See also 377.2, Ethical education.

.1, ; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies, Society for ethical culture; .7, Study and teaching; .8, Polygraphy; .9, History.

171 Theories. Philosophy of ethics.

.1 Authority. Will of God. Christian.

.2 Intuition. Moral sentiment.

See also 143, Intuitionalism; 156, Intuitive faculty.

.3 Perfection.

.4 Happiness. Hedonism.

.5 Utilitarianism.

.6 Conscience. Casuistry.

.7 Evolutionary or educational.

.8 Altruism.

.9 Egoism.

172 State Ethics.

.1 Individuals and the state. Duties of citizens. Patriotism. See 320, Political science.

.2 Duties of public officers.

.3 Relations to church.

See 261.7, The church; 322, Church and state; 272, Persecutions.

.4 International ethics. Peace and war.

See 341, International law.

.5

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173 Family Ethics.

.1 Marriage and Divorce. See 347.6, Family law.
.2 Polygamy and Monogamy. See 298, Mormonism.
.3 Duties of Husbands and Wives.
.4 Infanticide.
.5 Duties of Parents.
.6 Duties of Children.
.7 Home Life.
.8 Masters and Servants. See 647, Servants; 331, Labor.
.9

174 Professional and Business Ethics

.1 Clergy.
.2 Physicians.
.3 Lawyers.
.4 Merchants. Business Men.
.5 Speculation.
.6 Gambling. See 175.
.7 Compact. Promise.
.8 Employers and Employed.
.9

175 Ethics of Amusements. For amusements, see 790.

.1 Public Shows and Diversions. Rinks, Circuses, etc.
.2 Theater. Opera. Private Theatricals.
.3 Dancing. Balls. Round Dances.
.4 Games of Skill. Billiards, Chess, etc.
.5 Games of Chance. Cards, Dice, etc.
.6 Prize Fighting. Animal Fighting. Bull, Dog, Cock, etc.
.7 Racing. Horse. Boat. Pedestrian. Wheel, etc.
.8 Novel Reading.
.9 Betting. Poolselling. See 174.6.

176 Sexual Ethics.

.1 Chastity.
.2 Celibacy. See 254, Celibacy of Clergy.
.3 Continence.
.4 Solitary Vice.
.5 Social Evil. See 258, Parish care of fallen.
.6 Adultery.
.7 Immoral Art.
.8 Immoral Literature.
.9

177 Social Ethics.

.1 Courtesy. See Etiquet, 395.
.2 Conversation. Gossip. See also 374.1, Self-culture.
.3 Truth. Slander. Flattery.
.4 Dress. Display. Sumptuary Legislation.
.5 Caste. Class Feeling. Wealth and Rank.
See 294, Brahmanism; 331, Capital and labor.
.6 Friendship. Courtship. Coquetry.
.7 Philanthropy. Humanity.
.8 Solitude vs. Social Obligations.
.9

178 Temperance. Stimulants and Narcotics.

General works on Temperance may be divided by form into .04, Essays; .05, Periodicals; .06, Societies; .07, Teaching; .09, History. See also 613.3, Beverages; 613.8, Nervous system; 331.84, Laboring classes.

.1 Use of Intoxicating Drinks. Beer Drinking. Medicinal Use.
.2 Total Abstinence vs. Temperance.
.3 Social Drinking. Wine at Table. Treating.
.4 Traffic in Intoxicating Drinks. License. High License.
See also 336.27, Taxation.
.5 Prohibition. See 329.81, Prohibition party.
.6 Reformatories. Inebriate Asylums, etc. See 362.
.7 Tobacco.
.8 Opium. Hasheesh. Chloral. Ether and other Drugs.
.9 Gluttony and other Intemperance.

179 Other Ethical Topics.

.1 Morals of the Press. Newspapers.
.2 Cruelty to Children. See 173.4; 331.3, Labor of children.
.3 Cruelty to Animals.
.4 Vivisection. See also 614.22, Vivisection laws.
.5 Oaths.
.6 Heroism. Bravery. Cowardice.
.7 Life. Duelling. Suicide. See 394.8, Customs.
.8 Pride. Covetousness. Envy. Anger. Sloth. Jealousy. Hate, and other Vices.
.9 Humility. Liberality. Gentleness. Patience. Diligence. Charity. Modesty, and other Virtues.

180 Ancient Philosophers.

See 921.9, Biography of Ancient Philosophy.

181 Oriental Philosophers.

.1 Chinese. Confucius. Mencius.
.2 Egyptian.
.3 Jewish. Kabala. Philo. Maimonides.
.4 Indian. Gymnosophists.
.5 Persian. Sufism.
.6 Chaldæan.
.7 Sabeism.
.8 Phœnician.
.9 Syrian.

182 Early Greek Philosophers.

.1 Ionic. Thales. Anaximander. Anaximenes.
Materialistic. Things are as they seem.
.2 Italic or Pythagorean. Half Idealistic.
.3 Eleatic. Xenophanes. Parmenides. Zeno. Melissus.
Idealistic. Existence denied. Thought is the only reality.
.4 Heraclitus.
.5 Empedocles.
.6 Atomistic.
.7 Democritus.
.8 Anaxagoras.
.9 Other Early Greek.

183 Sophistic and Socratic Philosophers.

.1 Sophistic. Protagoras. Gorgias. Prodicus. Hippias.
.2 Socrates.
.3 Socratic.
.4 Cynic. Antisthenes, Diogenes, Crates, etc.
.5 Cyrenaic. Aristippus, Hegesias, etc.
.6 Megaric. Euclid, Eubulides, Diodorus, etc.
.7 Elian and Eretrian. Phedo, Menedemus, etc.

184 Platonic. Older Academy.

.1 Plato. .2 Speusippus. .3 Xenocrates.

185 Aristotelian. Peripatetic. Lyceum.

.1 Aristotle. .2 Theophrastus. .3 Eudemus. .4 Strato.

186 Pyrrhonist. New Platonist.

.1 Pyrrhonism. Scepticism. Pyrrho, Timon.
.2 New Academy. Arcesilaus, Carneades. Plutarch.
See 888.8.
.3 Eclecticism. Cicero. See 875.4.
.4 Alexandrian. Neo-Platonic. Philo, Plotinus, Proclus, Porphyry, Iamblichus. See 239.4, Apologetics; 273.1.

187 Epicurean. Epicurus. Lucretius. See also 871.1.

188 Stoic.

.1 Zeno.
.2 Cleanthes.
.3 Chrysippus.
.4 Panaetius.
.5 Posidonius.
.6 Seneca. See 878.5; 872.6.
.7 Epictetus.
.8 Marcus Aurelius.

189 Early Christian and Medieval Philosophers.

.1 Gnosticism. See 273.1, Basilides, Marcion. See 273.2, Manicheism.
.2 Patristic. Tertullian. Augustine. Clement. Origen.
.3 Arabian. Avicenna, Averroes.
.4 Scholastic. Scotus, Aquinas, Anselm, Abelard.
.5 Mystic. Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme.

190 Modern Philosophers.

See also 921.1 to 921.8, Biography of Philosophy, or lives may be put here with works, with references only under 920, Biography. Philosophical works are put here, not under the School or System to which the author may be thought to belong. See note under 140.

191 American Philosophers.

These numbers may be left blank for future use or used for the well known names among American Philosophical writers given below.

.1 Jonathan Edwards. 1703–1758.
.2 O. A. Brownson. 1803–1876.
.3 Ralph Waldo Emerson. 1803–1882. See 814.36.
.4 Laurens P. Hickock. 1798–1888.
.5 James McCosh. 1811–
.6 Noah Porter. 1811–1892.
.7 Francis Bowen. 1811–1890.
.8 William T. Harris. 1835–
.9 Other American Philosophical Writers.

192 British Philosophers.

.1	Bacon.	1561–1626.	See 144, Empiricism.
.2	Locke.	1632–1704.	See 145, Sensationalism.
.3	Berkeley.	1685–1753.	See 141, Idealism.
.4	Hume.	1711–1776.	See 824.64, English Essays.
.5	Reid.	1710–1796.	See 143, Intuitionalism.
.6	Dugald Stewart.	1753–1828.	
.7	John Stuart Mill.	1806–1873.	
.8	Spencer.	1820–	
.9	Other British Philosophical Writers.		

193 German Philosophers.

.1	Leibnitz.	1646–1716.	
.2	Kant.	1724–1804.	See 142, Critical Philosophy.
.3	Fichte.	1762–1814.	See 141, Idealism.
.4	Schelling.	1775–1854.	
.5	Hegel.	1770–1831.	
.6	Schleiermacher.	1768–1834.	
.7	Schopenhauer.	1788–1860.	See 149.6, Pessimism.
.8	Lotze.	1817–1882.	
.9	Other German Philosophical Writers.		

194 French Philosophers.

.1	Descartes.	1596–1650.	See 144, Empiricism.
.2	Malebranche.	1638–1715.	
.3	Condillac.	1715–1780.	
.4	Rousseau.	1712–1778.	
.5	Diderot.	1713–1784.	
.6	Lamennais.	1782–1854.	
.7	Cousin.	1792–1867.	See 148, Eclecticism.
.8	Comte.	1798–1857.	See 146, Positivism.
.9	Other French Philosophical Writers.		

195 Italian Philosophers.

196 Spanish Philosophers.

197 Slavic Philosophers.

198 Scandinavian Philosophers.

199 Other Modern Philosophers.

The heads of 180–199 are for discussions of the systems of these men and for their philosophical works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and 5, where their works are more useful than in 184–5 because of their classical prominence.

Religion

200 Religion General works.

201 Philosophy. Theories. Methods.

202 Compends. Outlines. Systems.

203 Dictionaries. Cyclopedias.

204 Essays. Lectures. Disputations. Addresses.
See 252, Sermons.

205 Periodicals. Magazines. Reviews.

206 Societies. Transactions. Reports, etc.
General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject.

207 Education. Theological seminaries. Training schools. Divided like 940–99.

208 Polygraphy. Collected works. Extracts, etc.
Many collections go under a more specific head; e. g. 240.

209 History of religion.

210 Natural theology.

211 Deism and atheism.
Scepticism. Infidelity. Rationalism, etc.
See 239, Apologetics; 231, God; 273.8, Agnostic heresy; 149.7, Agnosticism.

212 Pantheism. Theosophy. See 147, Pantheism; 129.5, Origin of soul.

213 Creation. See 113, Cosmology. Evolution. See 575, Science.

214 Providence. See 231.5, Doctrines. Theodicy. See 231.8, for Christian view.

215 Religion and science. See 239.8, Apologetics.

216 Evil. Depravity. See 149.6, Pessimism; 233.2, Sin.

217 Prayer. Prayer gauge. See 264.1, Prayer; 248, Personal religion.

218 Future life. Immortality. Eternity.
See 237, Future state; 128, The soul.

219 Analogies. Correspondences. See also 169, Logic.

35 Per.

220 Bible. General works.

For similar works limited to Old or New Testament, or individual books, see specific head below.

.1 Canon. Inspiration. Prophecy.

.2 Concordances. Analyses.

.3 Dictionaries. Cyclopedias.

.4 Original texts and early versions. Codices.

Heads for both old and new testaments are given, as they are also used for 221 and 225.
.42, Chaldee; .43, Syriac; .44, Hebrew; .45, Samaritan; .46, Other Semitic. Ethiopic, Arabic, etc.; .47, Latin. Itala. Vulgate; .48, Greek. Septuagint. Aquila. Symmachus. Theodotion. Hexapla; .49, Other early versions. Armenian. Coptic, Gothic, etc. 220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7, with reference from 220.44.

.5 Versions of Bible. Polyglots. Divided by languages, like 400.

These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43.

.6 Hermeneutics. Exegesis. Symbolism. Typology.

.7 Commentaries on whole Bible, and annotated editions.

For Notes, etc., on Portions of the Bible, see the most specific head in 221–229.

.8 Special topics.

Divided like General Classification; e. g. Natural Science of the Bible in 220.85.

.9 Biblical Geography and History.

.91 Biblical geography, description, etc.; (see 915.69, 913.33, Palestine); .92, Scriptural biography, (see also 922.1; 232.9, Lives of Christ); .93, Antiquities, archæology; (see also 296, Jewish religion; 933, History of Jews); .94, Chronology; .95, History, see 935, Jews.

221 Old Testament. Texts. Introductions, etc.

Divided like 220, e. g. 221.7. Commentaries on O. T.

222 Historical books.

.1 Pentateuch.

.11, Genesis; .12, Exodus; .13, Leviticus; .14, Numbers; .15, Deuteronomy; .16, Decalogue.

.2 Joshua.

.3 Judges and Ruth.

.4 Samuel.

.5 Kings.

.6 Chronicles.

.7 Ezra.

.8 Nehemiah.

.9 Esther.

223 Poetical books.

.1 Job.

.2 Psalms.

.3 Authorship and chronology.

.4 Special groups.

Messianic: Greater Hallel; Lesser Hallel; Vesper Psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic Five Books, Ps. 1–41; 42–72; 73–79; 60–106; 107–150.

.5 Liturgic use by Christians.

See 264.038, Anglican psalter; 245, Hymnology.

.6 Commentaries on Psalms.

.7 Proverbs.

.8 Ecclesiastes.

.9 Song of Solomon or Canticles.

224 Prophetical Books.

.1 Isaiah.

.2 Jeremiah.

.3 Lamentations.

.4 Ezekiel.

.5 Daniel.

.6 Hosea.

.7 Joel.

.8 Amos.

.9 Other Minor Prophets.

.91 Obadiah.

.92 Jonah.

.93 Micah.

.94 Nahum.

.95 Habakkuk.

.96 Zephaniah.

.97 Haggai.

.98 Zechariah.

.99 Malachi.

225 New Testament. Texts, Introductions, etc.

Divided like 220.

226 Gospels and Acts.

.1 Harmonies.

.2 Matthew.

.3 Mark.

.4 Luke.

.5 John.

.6 Acts of the Apostles.

.7 Miracles.

.8 Parables.

.9 Lord's prayer.

227 Epistles.

.1 Romans.

.2 1 Corinthians.

.3 2 Corinthians.

.4 Galatians.

.5 Ephesians.

.6 Philippians.

.7 Colossians.

227.8 Other Pauline Epistles.

.81 1 Thessalonians.
.82 2 Thessalonians.
.83 1 Timothy.
.84 2 Timothy.
.85 Titus.
.86 Philemon.
.87 Hebrews.

.9 Catholic Epistles.

.91 James.
.92 1 Peter.
.93 2 Peter.
.94 1 John.
.95 2 John.
.96 3 John.
.97 Jude.

228 Apocalypse.

229 Apocrypha.

.1 Esdras 1, 2.
.2 Tobit, Judith, Esther.
.3 Wisdom.
.4 Ecclesiasticus.
.5 Baruch, Epistle of Jeremy, Song of the three Children.
.6 Story of Susanna, History of Bel and the Dragon, Prayer of Manasses.
.7 Maccabees 1, 2, 3, 4.
.8 Pseudo Gospels.
.9 Apostolic Epistles and Canons. Clementines. See 281.1.

230 Doctrinal. Dogmatics. Theology.

General Doctrinal Works may be subdivided by churches like 280–289. See 252.3.

231 God. Unity. Trinity.

.1 God the Father, Creator.
.2 God the Son, Redeemer.
.3 God the Holy Ghost, Giver of Life, Sanctifier.
.4 Divine Attributes. Omniscience, Omnipresence, Omnipotence.
.5 Divine Providence. See 214.
.6 Divine Love and Wisdom.
.7 Divine Law and Miracles.
.8 Theodicy. Vindication of God's justice in permitting evil. See also 214, Nat. theology.
.9

232 Christology.

.1 Incarnation. Messiah.
.2 Logos, the Word of God.
.3 Atonement.
.4 Sacrifice.
.5 Resurrection.
.6 Second Coming. See also 289.3, Second Adventists
.7 Judgment.
.8 Divine Humanity.
.9 Lives of Christ.

233 Man.

.1 The Fall.
.2 Sin.
.3 Moral and Spiritual Heredity. See Biology, 575.1; 136.2; 129.2.
.4 Accountability.
.5 Natural and Spiritual Body.
.6 Personality. See 126, Metaphysics.
.7 Freedom. See 234.9; 123; 159.
.8
.9

234 Salvation. Soteriology.

.1 Grace.
.2 Faith.
.3 Redemption.
.4 Regeneration.
.5 Repentance.
.6 Obedience.
.7 Justification.
.8 Sanctification.
.9 Predestination and Freewill. See 233.7; 123; 159.

235 Angels. Devils. Satan.

236 Eschatology. Last Things.

.1 Death.

.2

.3 Millennium.

.4 Intermediate State. Sheol. Hades.

.5 Purgatory.

.6 Paradise. Limbus patrum.

.7 Limbo. Limbus infantum.

.8 Resurrection.

.9 Judgment. See 232.7, Christology.

237 Future State. See 218, Natural theology.

.1 Eternity.

.2 Immortality.

.3 Conditional Immortality.

.4 Heaven.

.5 Hell. Gehenna.

.6 Retribution. Future Punishment.

.7 Eternal Punishment. See 289.1, Universalists.

238 Creeds. Confessions. Covenants. Catechisms.

Divided more closely if wished like 280–289; e. g. 238.19, Greek church.

.1 Apostles', Nicene, and Athanasian Creeds.

.2 Creed of Pius IV. (Trent); and later Roman.

.3 Anglican. 39 Articles, A. D. 1551. See 264.037, Liturgy.

.4 Continental Prot. Lutheran. Calvinist. Dort.

.5 Westminster. Saybrook. Cong'l. Cambridge. Savoy.

.6–9 Of other Sects. Divided like 286–289.

239 Apologetics. Evidences of Christianity.

If preferred, courses of Apologetic lectures may be kept together; e. g. 239.01, Bampton; .02, Boyle; .03, Hulsean; .04, Bohlen; .05, Paddock; .08, Miscellaneous. More usefully each book is classed under the most specific head that will contain it.

.1 Apostolic Age.

.2 Against the Jews.

.3 Against the Heathen.

.4 Against the Neo-Platonists. See 273.1, Gnostic heresy.

.5 Against the English and Scotch Deists. See 211, Deism.

.6 Against the French Encyclopedists.

.7 Against the Rationalists.

See 211, Natural theology; 273.8, Agnostic heresy; 149.7, Agnosticism.

.8 Against the Scientists. For non-Christian view, see 215.

.9 Other Special Denials.

240 Devotional. Practical.

241 Didactic. For Catechisms, see 238.

242 Meditative. Contemplative. See 248, Personal religion.

.1 Thomas à Kempis.

243 Hortatory. Evangelistic.

244 Miscellany. Religious novels, Sunday-school books, allegories, etc.

But class Bunyan in 823.42, because of his literary prominence.

245 Hymnology. Religious poetry.

See 223.5. Psalms; 264.038, Psalter.

Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked.

246 Ecclesiology. Symbolism. Religious art.

246-7 cover religious bearings. For art side see 700.

.1 Byzantine and Gothic ecclesiology.

See 723, Mediæval architecture; 726, Religious architecture.

.2 Primitive church and heathen art.

.3 Images in churches. Iconoclasts.

.4 Protestantism and religious art.

.5 Emblematic and cryptographic art. Catacomb symbols.

.6 Liturgic symbolism. Altar. Colors. Lights.

See 264, Public worship.

.7 Evangelistic use of music and art, pictorial and plastic. Della Robbias.

.8 Eucharistic music. Ambrose. Gregory the Great. Later development. See 783, Sacred music; 264.2, Public worship.

.9

247 Sacred furniture. Vestments. Vessels. Ornaments, etc.

.1 Font. Baptistery. Lectern. Pulpit.

.2 Tabernacle. Rood screen. Reredos.

.3 Sculpture and mortuary design.

See 718, Monuments; 726.8, Mortuary buildings; 730, Sculpture.

.4 Illumination. Mosaics. Enamels. Stained glass.

See 745, Ornamental design; 748, Stained glass.

.5 Fresco and religious painting. See 750, Painting.

.6 Pallium. Mitre. Crozier. Ring.

.7 Vestments and altar cloths.

.8 Eucharistic vessels. See 265.3, Sacraments.

.9 Ornaments, etc. Crucifix. Banners. Thurible. Incense.

248 Personal religion. Asceticism. See also 273.2, Ascetic heresy.

249 Family devotions. See 264, Public worship.

250 Homiletic. Pastoral. Parochial.

251 Homiletics. Preaching. See 264.6, Public worship.

Divided like 252, for matter *about* special kinds of sermons.

252 Sermons.

The collected sermons on various topics under 252 are divided by churches and sects, like 280. The sermons on specific topics are more useful, like other pamphlets, classed with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, in 331.89. The nine heads below are for collections and cross references, but can be used for separate sermons if the classifier prefers.

.1 Episcopal charges. Pastorals.
.2 Controversial. Polemic.
.3 Doctrinal. Dogmatic. See also 230, Dogmatics.
.4 Practical. Devotional.
.5 Academic. Educational. See also 378.7, Baccalaureates.
.6 Political. Public occasions and duties.
.7 Consecration. Ordination.
See also 265.4, Ordination; 265.9, Consecration; 262.16, Polity.
.8 Expository.
.9 Memorial. Obituary. Biographical. Historical.
The memorial of a special church goes with that church in 280. See 920, Biography.

253 Pastoral visitations, evangelistic.

254 Clerical support. Celibacy.

See also 176.2, Sexual ethics; 248, Asceticism; 613.89, Hygiene.

255 Brotherhoods. Sisterhoods.

In the parish. For Monastic orders, see 271.

256 Societies for parish work. Guilds. Sodalities.

Local societies. Discussion of desirability of such work. For general societies see 206 and 267.

257 Parochial schools. Libraries, etc.

See 377.5, Education; 027.8, Parish libraries.

258 Parish care of sick, fallen, etc.

See 265.8, Ministry of sick; 176.5, Social evil.

259 Other ministrations and work.

260 Church. Institutions and work.

261 The church. Its influence on morals, civilization, etc.

.1
.2
.3 Church vs. barbarism.
.4 Church and morals.
.5 Church and intellectual development. See 377.8, Education.
.6 Church and civilization.
.7 Church and civil government. See 172.3, State ethics; 322, Church and state.
.8 National churches vs. organic unity.
.9

262 Ecclesiastical polity.

.1 Ministry.
.11 Apostolic succession.
.12 Episcopate.
.13 Papacy. Primacy. Papal supremacy; infallibility, 18 July 1870.
.14 Priest. Presbyter. Minister. Lay ministry.
.15 Deacon. Deaconess. Evangelist.
.16 Orders. Ordination. See 265.4, Sacraments; 252.7, Sermons.
.17 Episcopal.
.18 Presbyterian.
.19 Congregational.
.2 Parish. Congregation. See 250 for Parochial work.
.3 See. Diocese. Cathedral system.
.4 Council. Synod. Presbytery. Congregation. Convention
Polity only, here. Proceedings go with churches, 281-9.
.5 General or œcumenical council. See also 270.2.
.6 Canons. Decrees.
.7 Traditions.
.8 Authority. Church and ministerial. Private judgment.
.9 Discipline. Courts. Trials. For Canon law see 348.

263 Sabbath. Lord's day. Sunday.

.1 Hebraic sabbath.
.2 Modern sabbath. Seventh day.
.3 Lord's day. Christian Sunday.
.4 Sunday observance.
.5 Work.
.6 Amusement.
.7 Opening libraries and museums.
See also 024.4, Library rules.
.8 Sunday laws.
.9

264 Public worship. Divine service. Ritual.

See also 246, Ecclesiology; 247, Sacred furniture. General works are divided by Churches like 280. Under various Churches the services may be further divided, as, e. g.

.03 Anglican and American P. E. ritual.
.031 Calendar. Festivals and fasts. See also 529.6, Chronology.
.032 Lectionary and rubrics.
.033 Morning prayer. Litany.
.034 Evening prayer. Vespers. Compline.
.035 Sacraments, ordinances, and services. See also 265, Sacraments.
.036 Collects, epistles and gospels.
.037 Ordinal. Articles. Creeds. See also 238.3, Creeds, doctrines.
.038 Psalter and other. See 223.5, Psalms; 245, Hymnology.
.039 History of successive prayer books.

264.1 **Prayer. Extempore. Liturgic.**
See also 248–249, Private and Family Prayer.

.2 **Music. Singing. Instrumental. Praise Meeting.**
See also 783, Sacred Music; 246.7, 246.8, Ecclesiology.

.3 **Scripture Readings.**

.4 **Antiphonal or Responsive Readings.**

.5 **Confessions of Faith. Creeds.** See also 238, Creeds.

.6 **Sermons. Exhortations. Instructions.**
See also 251 and 252, Preaching and Sermons.

.7 **Prayer and Conference Meetings.**

.8 **Class and Covenant Meetings. Love Feasts.**

.9 **Sacramentals.** See also 265, Sacraments.

265 Sacraments. Ordinances.

.1 **Baptism.**

.2 **Confirmation. Church Fellowship.**

.3 **Eucharist. Holy Communion. Sacrifice.**

.4 **Holy Orders. Ordination.** See also 262.16, Ministry; 252.7, Sermons.

.5 **Marriage.** See 173, Ethics of the Family.

.6 **Penance. Confession. Absolution.**

.7 **Extreme Unction. Viaticum.**

.8 **Ministry of Sick and Dead. Faith Cure. Healing. Burial.**

.9 **Consecration. Dedication.** See 262.16, Ordination; 252.7, Sermons.

266 Missions. Home and Foreign.

Subdivided by Churches, like 280. See also 377.6, Missionary schools.

Missions in special countries or places, including those of all churches, go under the geographically divided Religious History, 274–279, with references under 266.

267 Associations.

General societies demanding of members active personal work. For local societies see 256. For Bible, tract, and similar general societies see 206.

.1 **Religious societies of both men and women.**

.11 U. S. Christian commission.

.15 Salvation army.

.2 **Religious societies of men.**

For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies, 207; Bible societies, 206.

.21 17th century or earlier. } May be divided by countries like 940–99.

.22 18th century. }

.23 19th century; inter- and undenominational.

.231 In educational institutions. Divided like 940–99. If preferred, cancel .231 and put all together in .234–9. For work of Y. M. C. A. see 267.361.

.232 "Nasmith" societies.

.233 Young men's Christian unions; i. e. not "evangelical," etc.

.234–.239 Others. Divided like 940–99.

.24 19th century; denominational.

.241 In educational institutions. Divided like 282–289. If preferred, cancel .241 and put all together in .242–9. For work of Y. M. C. A. see 267.361.

.242–.249 Others. Divided like 282–289.

.3 **Young Men's Christian Associations.**

Active membership confined to members of "evangelical" churches.

To shorten the number, X may be used for 267.3 throughout; i. e. X 19 would mean "Work in small towns."

267.31 **Objects, field and extension.**

.311 Need and objects.

.312 Limits; — for and by young men and distinctively religious.

.313 Relation to the church.

.314 International work.

.315 National work.

.316 State work.

.317 District work.

.318 Work in towns able to support a general secretary.

.319 Work in small towns.

} Methods only. For history, reports and periodicals see 267.39; for secretaries see 267.341.

.32 **Buildings.** See library buildings 022.

.321 Location. Provision for growth.

.322 Materials and protection against fire.

.323 Plans. Number, size and arrangement of rooms.

.324 Reception, social rooms and parlors.

.325 Library. Reading, lecture, and class rooms. See 022.

.326 Administration and special rooms. Boys' rooms.

.327 Physical culture rooms.

.328 Lighting, heating, and ventilation.

.329 Fixtures, furniture, and fittings.

.33 **Organization.**

.331 Incorporation. Constitution and by-laws.

.332 Branches and sub-organizations. Including women's work for young men.

.333 Managers. Officers serving without pay.
1, Trustees (in charge of real estate).
2, Directors.
3, President.
4, Treasurer.
5, Recording secretary.
6, Executive or Corresponding secretary.

.334 Standing committees.
1, Importance; enlistment and composition.
2, Principles and methods of organization.
3, Names and duties. See also Department work 267.35.

.335 Membership.
1, Membership committee.
2, Classes of membership.
3, Securing and retaining members.
4, Development of active members.
5, Associate membership and its relations.
For members' meeting see Social work, 267.3544.

.34 **Salaried officers. Duties, qualifications, training.**

.341 General secretary and assistants. Including international and state secretaries. See also 267.314–.316.
1, Office and work.
2, Qualifications.
3, Relationship: 31, To churches and pastors; 32, To officers, directors, and committees; 33, To other employees; 34, To the members; 35, To the religious work; 36, To the business community; 37, To his fellow secretaries.
4, Personal hints: 41, considering a call and beginning work; 42, Spiritual and intellectual growth and health; 43, Office work, system, and economy; 44, Personal appearance and conversation; 45, Ladies' company; 46, "Secretarialism."

267.342 Librarian and assistants. May be divided like 267.341. See also Library administration, 025 and 267.3532.

.343 Physical director and assistants. May be divided like 267.341. See also 267.355 and 613.7.

.344 Other salaried officers.

.345 Training; need and methods, demand and supply.

.346 Training schools.

.347 Training by apprenticeship.

.348 Institutes. } Methods only; for reports see 267.39.

.349 Conferences. }

.35 Local work by departments.

.351 Business department.
- 1, Finance committee.
- 2, Annual budget.
- 3, Endowments and other sources of income.
- 4, Solicitation, collection and disbursement.
- 5, Financial book-keeping.
- 6, Debt, taxes, &c.
- 7, Records and statistics.
- 8, Advertising, including anniversaries and parlor conferences.
- 9, Printed matter. Including bulletin, prospectus, etc.

.352 Religious department.
- 1, Committees.
- 2, Individual Bible study. Methods and helps.
- 3, Bible classes.
- 4, Training classes. Personal work.
- 5, Bible readings. Song services.
- 6, Evangelistic meetings.
- 7, Social religious meetings.
- 8, Other meetings in the rooms.
- 9. Work outside the rooms. In public institutions, sermons to young men, distribution of religious papers, invitations, etc.

.353 Educational department.
- 1, Committees.
- 2, Library. See 267.342 and 025.
- 3, Reading room.
- 4, Classes.
- 5, Lectures and talks.
- 6, Literary societies.

.354 Social department.
- 1, Committees.
- 2, Reception committee.
- 3, Social rooms and fittings. See 267.32.
- 4, Receptions. Socials. Entertainments.
- 5, Music.
- 6, Amusements. Including games of skill. See also 794.

267.355 Physical department.
- 1, Committees.
- 2, Aim and benefit of department. For Physical director see 267.343; Equipment, methods, etc., 613.7.

.356 Information, relief, etc., department.
- 1, Boarding house bureaus.
- 2, Employment bureau.
- 3, Savings bureau.
- 4, Visitation of sick.
- 5, Destitute young men.

.357 Boys' department.
- 1, Committees.
- 2, Religious work.
- 3, Educational work.
- 4, Social work.
- 5, Physical work.
- 6, Information, relief, etc.

.358

.359 Janitor's department. Building; care, cleaning, safety. Police.

.36 Work among special classes.

Y. M. C. A. only; other religious societies of men go in 267.2.

.361 College and school.
- 1, History and methods in general.
- 2, International reports. Including Northfield meetings.
- 3, International periodicals.

For state and sectional reports and periodicals see 267.39.

.362 Railroad employes.
- 1, History and methods in general.
- 2, International reports.

.363 Commercial travelers.

.364 Foreign-speaking. Divided like 400; e. g. 3, German, 4, French, 5, Italian, etc.

.365 Colored men.

.366 American Indians.

.367 Soldiers. U. S. Christian commission, 267.11.

.368 Sailors.

.369 Other. Policemen, firemen, fishermen, lumbermen, mutes, etc.

.37

.38

.39 History, reports, periodicals, etc. For methods see 267.314–.319.

.391 International history.

.392 International reports, etc. } Reports, etc., of international college and railroad work go in 267.361–.362.
- 1, Reports.
- 2, Other pamphlets.

.393 International periodicals. International college periodicals, 267.3613.

.394–.399 Divided like 940–999.

267.4 **Religious societies of women.**

.41

.42

.43 19th century; inter- and undenominational.

.431

.432 Women's Christian associations.

Divided like 267.3. To shorten the number, W may be used for 267.432 throughout; e. g. W 1 would mean "Objects, field and extension."

.433 King's daughters.

.44 19th century; denominational. Divided like 282–289.

.5 **Young Women's Christian Associations.** Active membership confined to members of "evangelical" churches.

Divided like 267.3–.399.

To shorten the number Y may be used for 267.5; e. g. Y 3, Organization, instead of 267.53.

.6 Religious societies of young people. For Sunday schools see 268.

.61 Inter- and undenominational.

.611

.612

.613 Young people's society of Christian endeavor.

1, Reports, etc.

2, Periodicals.

.62 Denominational. Divided like 282–289.

.7 **Religious societies of boys.** Not Y. M. C. A. Divided like 267.6.

.8 **Religious societies of girls.** Not Y. W. C. A. Divided like 267.6.

9.

268 Sunday Schools.

269 Revivals. Retreats. Parish Missions.

270 Religious History.

Ancient Period. To Conversion of Germans.

See 281.1–281.4, for collected works of early theological writers, etc. 270 is for religious history of these *periods*.

For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2.

.1 **Apostolic. Nativity to Constantine.**

.2 **Period of Œcumenical Councils. Centralization. A. D. 325-787.**

The Greek Church acknowledges these seven Councils as really Œcumenical. Anglicans generally recognize only the first six. See also 262.5, Polity.

.21	First of Nice,	A. D. 325.
.22	First of Constantinople,	381.
.23	First of Ephesus,	431.
.24	Chalcedon,	451.
.25	Second of Constantinople,	533.
.26	Third of Constantinople,	681.
.27	Second of Nice,	787

Mediæval Period. Charlemagne to Luther.

270.3 **Charlemagne. Papacy vs. Empire. A. D. 787–1054.**

Church planted among the Germans. Feudalism. Great schism, east *vs.* west, 1054.

.4 **Hildebrand. Roman Supremacy. A. D. 1054–1200.**

Temporal Power. Scholasticism. First three Crusades.

.5 **Later Mediæval. Renaissance. A. D. 1200–1517.**

Innocent III. Papal Schism. Avignon. Nominalism *vs.* Realism. Greek Church under Moslems. Education. Arts. Inventions Pre-Reformation.

Modern Period. Reformation to present.

From A. D. 1517, Theology in Europe is in three types, viz.: Roman, Lutheran, and Reformed or Calvinistic.

.6 **Reformation. Counter-Reformation. A. D. 1517–1648.**

Council of Trent, A. D. 1545-63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious Wars. Jesuit Missions in East. See also Reformation in England, etc., 274.2.

.7 **Peace of Westphalia to French Revolution. A. D. 1648–1789.**

Union of Church and State. Deism. Materialism.

.8 **Modern. Rationalistic. A. D. 1789-**

Holy Alliance. Greek Church in Russia. Atheism. Pantheism. Protestant Missions.

271 Monastic Orders.

See also 255, Brotherhoods; 377.3, Monastic schools.

.1	Benedictines.	Founded A. D.	529.
.2	Dominicans.	,, ,,	1170.
.3	Franciscans.	,, ,,	1182.
.4	Augustinians.	,, ,,	1256.
.5	Jesuits.	,, ,,	1540.

.6 Passionists. 1720. Redemptorists. 1732.

.7 Lesser Roman Orders.

.71 Carthusians. Founded A. D. 1086.

.72 Cistercians. ,, ,, 1098.

.73 Carmelites. 12th Century.

.74 Trappists. 1150. Capuchins. 1525.

.75 Sulpicians. 1642.

.76 Oblates.

.77 Lazarists. 1624.

.78 Christian Brothers. 18th Century. De la Salle.

.79 Other Lesser Roman Orders.

.8 Anglican Brotherhoods.

.9 Sisterhoods.

.91	Sisters of Charity. Vincent de Paul.	Founded A. D.	1629.
.92	Sisters of Mercy. Augustinian.	,, ,,	1831
.93	Ladies of the Sacred Heart. Jesuit.	,, ,,	1800.

.94 Sœurs de bon Secours. Nurses.

.95 Little Sisters of the Poor.

.96 Contemplative. Cloistered Nuns.

.97 Other Roman Sisterhoods.

971	Carmelites.	
972	Second of St. Dominick.	
.973	Franciscans.	
.974	Ursulines.	A. D. 1537.
.975	Of the Visitation.	,, 1610.
.976	Of St. Joseph.	,, 1650.
.977	Of the Presentation.	,, 1777.

.98 Anglican Sisterhoods.

.99 Other Protestant Orders. Deaconesses. (Kaiserwerth.)

272 Persecutions.

.1 Apostolic Church by Imperial Rome. 1st to 4th Century.

.2 Heretics, by Inquisition or Holy Office. Since 1470. ,,

.3 Waldenses and Albigenses. 11th and 12th Cent. By R.Ch.
See also 284.4, Protestant sects.

.4 Huguenots. French Protestants. St. Bartholomew, 1572. Edict Nantes, 1598, Revocation, 1685. By Rom. Ch.
See also 284.5, Protestant sects.

.5 Molinists and Quietists. Close of 16th Century to destruction of Port Royal, A. D. 1709. By Roman Catholics.
See also 273.7, Heresies.

.6 Marian. Anglican Reformers by Mary. A. D. 1553–8. ,,

.7 Elizabethan. Later 16th Century. Rom. Ch. by Anglicans.

.8 Quakers. Baptists. Witches. Later 17th Cty. By Puritans.
See also 133.4, Witchcraft.

.9 Other Persecutions.

273 Heresies.

For the history of special Doctrines see 230–239, Doctrinal Theology.

.1 Gnostic.—Reaction of Pantheism and Heathen Philosophy on Christianity. 1st three Centuries.
See also 189.1, Gnostic philosophy; 186.4, Neo-Platonism; 239.4, Apologetics.

.2 Manichæism.—Parsee Dualism. Opposition of Good and Evil. Mystic. Ascetic. 3d Century.
See 149.3, Mysticism; 248, Asceticism.

.3 Sabellian.—That the Trinity is not of persons, but of successive manifestations. About 250 A. D. (Held by Schleiermacher, Bushnell, Swedenborg.)

.4 Arian.—Denying Divinity of Christ. 4th Century.

.5 Pelagian.—Denying Original Sin and Supernatural Grace. 5th Century.

.6 Antinomian.—Denying force of Law, under Gospel Dispensation. 16th Century.

.7 Molinist and Jansenist. Pietists. Port Royal.—Augustine's doctrine of Grace, vs. the Roman doctrine of Good Works. A. D. 1580–1700.

.8 Agnostic.—Denying possibility of Revelation. Holding that Theology and the Supernatural lie without the domain of Human Knowledge.
See also 149.7, Philosophy; 211, Atheism; 239, Apologetics.

.9 Minor Heresies.

274 to 279 General Religious History. By Countries.

274–279 is divided geographically like 940–999.

280 Christian Churches and Sects.

281–289.8 may be subdivided where needed like 940–999.

281 Primitive and Oriental Churches.

See also 270.1 to 270.3, Early Religious History.

.1 Apostolic Church, to time of Great Schism, A. D. 1054.
Works of Apostolic and Christian Fathers here; use 270 for religious history of these periods. See also 229.9, Apocryphal books.

.2 Primitive Apostolic, to end of First Century.

.3 Ante-Nicene, A. D. 100–325. See also 270.1.

.4 Post-Nicene, A. D. 325–1054. See also 270.2–3.

.5 Oriental Churches.

.6 Armenian.

.7 Coptic.

.8 Nestorian.

.9 Eastern or Græco-Russian or Holy Orthodox Church.
The Great Schism, Mutual Ex-communication, A. D. 1054, separates the Catholic Church into Eastern and Western Churches, which from this time have separate histories.

282 Western or Roman Catholic Church.

Divided geographically like 940–999.

283 Anglican and American P. E. Church.

Divided geographically, when needed, like 940–999; e. g. the Anglican Church in Australia is 283.94; India, 283.54.

284 Continental Protestant Sects. Protestantism.

.1 Lutheran. Reformed. See also 285.7, Reformed church in America.

.2 Calvinist; Zwinglian. See 285, and 286.1.

.3 Hussites. Anabaptists. Leyden. See 286.1.

.4 Albigenses. Waldenses. Vaudois. See 272.3.

.5 Huguenots. See 272.4.

.6 Moravian.

.7 Scandinavian. Swedish.

.8 Old Catholic.
Here are classed those denying Papal Infallibility, or for other cause cut off from Rome, though Catholic in other respects.

.9 Other.

285 Presbyterian. Reformed. Congregational.

.1 Presbyterian Church in America.

.2 Presbyterian Church in Great Britain.

.3 Cumberland Presbyterian.

.4 United Presbyterian.

.5 Reformed Presbyterian.

.6 Minor Presbyterian Sects.

.7 Reformed (Dutch) Church in America. e. g. 285.77471, in N. Y. City

.8 Congregational.

.9 Puritanism.

286 Baptist.

.1 Calvinistic. .2 Free Will. .3 Seventh Day.

287 Methodist.

.1 Wesleyan Methodist.
.2 Calvinistic Methodist.
.3 Welsh Calvinistic Methodist.
.4 Primitive Methodist.
.5 Primitive Wesleyan.
.6 Methodist Episcopal.
.7 Protestant Methodist.
.8 African Methodist.
.9 Minor Methodist Sects.

288 Unitarian. See 273.4.

289 Minor Christian Sects.

.1 Universalist.
.2 Campbellite or Christian. Disciples.
.3 Adventist. See also 232.6, Second coming of Christ.
.4 New Church or Swedenborgian.
.5 Catholic Apostolic.
.6 Quakers. Friends. Hicksites.
.7 Mennonite.
.8 Shaker. Mystic.
.9 Other Minor Christian Sects.

290 Ethnic. Non-Christian.

291 Comparative and General Mythology.

292 Greek and Roman Mythology.

293 Teutonic and Northern Mythology.

294 Brahmanism. Buddhism. For other Indic Religions, see 299.11.
See also 891.2, Sanskrit literature; 177.5, Caste.

295 Parseeism. Zend Avesta. For other Iranic Religions, see 299.15.
See also 891.52, Zend literature.

296 Judaism. For other Semitic Religions, see 299.2.

297 Mohammedanism.

298 Mormonism. See 173.2, Polygamy.

299 Minor Non-Christian Religions.
Subdivided ethnically like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158.

Sociology.

300 Sociology in General.

301–309 all have Sociology in General as their subject, but it is treated in these various forms. A periodical on Education goes 370.5, not 305, which is only for periodicals on Sociology in General. In Sociology, most works in these forms are limited to one Division; e. g. to Political Economy, Education, Law, etc. All these have the same subdivision of General Works; i. e. Essays on the various divisions are 310.4, 320.4, 330.4, and so on to Essays on Manners and Customs in General, 390.4. A Zero in any class number shows the subject to be general, not specific.

301 Philosophy. Theories.
See Philosophy of History, 901.

302 Compends, Outlines.

303 Dictionaries, Cyclopedias, etc.

304 Essays, Lectures, Addresses.

305 Periodicals, Magazines, Reviews.

306 Societies, Transactions, Reports.

307 Education, Teaching, Study, etc. See also 370.

308 Polygraphy, Collected Works, Extracts, etc.
Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of Social Science.

310 Statistics.

311 Theory, Methods. Science of.

312 Population. Progress of. Vital Statistics. Births. Deaths. Mortality. Longevity.
See also 614.1, Registration and vital statistics.
Statistics are divided geographically like 930–999; e. g. Population of Maine is 312.741.

313 Special Topics.

314 to 319 General Statistics. Divided geographically like 940–999.
The Statistics of any special matter are put with the subject, e. g. of Domestic Animals in 636, of Short Hand in 653, of French Novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic ~~are divided by countries~~. The Statistics of New York City would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine, i. e., the Topic outranks the Locality.

320 Political science.

.1, Theory of the state; .2, Compends, statecraft; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History of political science, divided like 930-999.

321 Form of state.

This is for discussion of form of state, what should be; for what is, see 342, Constitutional law and 353-354, Administration.

.1 Family. Patriarchal age.
.2 Tribes. Clans. Marks. Village communities.
.3 Feudalism.
.4 Democracy. Pure; e. g. Athens, Town meeting.
.5 Aristocracy. e. g. Italian republics. Mediæval German cities.
.6 Absolute monarchy.
.7 Constitutional monarchy.
.8 Republic. Modern democracy, delegated powers.

322 Church and state. See also 172.3, State ethics; 261.7, The church.

323 Internal or domestic relations.

Free speech, Liberty of the press; see also 070, Newspapers; 179.1, Morals of the press.

324 Suffrage.

.1 Qualifications. Age. Property. Education. Color. Race, etc. See also 325.1, Naturalization.
.2 Forms of suffrage. Universal. Limited. Minority representation. Class system. Cumulative, etc.
.3 Woman suffrage. See also 396.3, Woman; 329 83, Woman suffrage party.
.4-9 In special countries. Divided like 940-999.

325 Colonies and immigration.

.1 Immigrants and naturalization.
.2 Emigrants. Divided by countries like 930-999.
.3 Colonization. Divided by country like 940-999.
.4-9 In special countries. Divided like 940-999, by country in which planted.

326 Slavery. See also 973.7, Civil war; 371.94, Education of freedmen.

.1 Slave trade.
.2 Coolies and contract slaves.
3 Serfs and serfdom.
.4 Anti-slavery documents.
.5 " periodicals.
.6 " societies.
.7 Pro-slavery.
.8 Emancipation and freedom.
.9 History of slavery. Divided geographically like 930-999.
.92 Biography of slaves.

327 Foreign relations. Divided geographically like 930-999.

328 Legislative bodies and annals.

.1 Parliamentary law.
.2
.3
.4-9 Of special countries.
Divided by countries like 940-999, and under each, works may be divided: .1, Journals; .2, Debates; .3, Abstracts; .4, Documents; .5, Rules; .8, Legislative manuals; .9, History of bodies.

329 Political parties. Party conventions.

329.01, U. S. presidential campaign documents of all parties, arranged by campaigns.

.1 Federal.
.2 Anti-Federal.
.3 Democratic.
.4 Whig.
.5 American. Know-nothing.
.6 Republican.
.7
.8 Minor parties.
.81, Prohibition, see also 178.5, Ethics; .82, Greenback, see also 332.5, Paper money; .83, Woman suffrage, see also 324.3, Suffrage; .84, People's; .85, Labor, see also 331.8, Laboring classes.
.9 Parties in other countries. Divided geographically like 940-999.

330 Political economy.

.1, Theories; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .8, Polygraphy; .9, History.

331 Capital. Labor and wages.

.1 Relations of capital to labor.
.2 Wages. Comparative wages. Profit sharing. Compulsory insurance.
.3 Labor of children. See also 179.2, Cruelty to children.
.4 Labor of women. See also 396.5, Woman.
.5 Convict labor. Prison contracts. See also 365, Prisons.
.6 Pauper labor. Cheap foreign labor. Chinese.
See also 339, Pauperism; 362.5, Asylums.
.7 Skilled and unskilled labor.
.8 Laboring classes. See also 329.85, Labor party.
.81 Hours of labor.
.82 Places of labor. Dangers.
See also 613.6, Hygiene; 622.8, Mining; 614.8, Protection of life.
.83 Food. Clothes. Shelter. See also 640, Domestic economy.
.84 Morals and habits. Thrift. Temperance. Amusements. Temptations.
See also 170, Ethics; 790, Amusements; 263.6, Sunday.
.85 Helps. Lectures. Libraries. Reading-rooms, etc.
See also 374.5. Popular lectures; 020, Libraries; 263.7, Sunday.
.86 Training. Apprenticeship.
.87 Organization of labor.
.88 Trade unions and other labor societies. See also 338.6. Guilds.
.89 Strikes.

Gifford suggests consolidation of 332 & 336

"Let Country division prevail" (Crerar)

332 Banks. Money. Credit. Interest.

.1 **Banks and Banking.**
.11, National; .12, State; .13, Private; .14, Trust companies; .15, Foreign. See also 334.2 Co-operative banks.

.2 **Savings Banks.** .21 Private (Giwitz) .22 Municipal .23 Postal

.3 **Loan Institutes.**

.31 Credit Institutes.
.32 Building Associations. See 334.1, Co-operation.
.33 Monts de Piété. Governmental.
.34 Pawn Shops. Private.

.4 **Coins and Coinage. Mints.**

.41 Coinage Metals. Production and Value. Gold. Silver. Nickel. Copper.
.42 Single and Double Standard. Silver question (Crerar)
.43 International Standards.
.44 Monetary Congresses.
.45 Comparative Value of Moneys.
.46 Mints.
.47 Coinage Laws.
.48
.49 History of Mints and Coinage. Divided geographically like 940–999.

.5 **Paper Money. Public and Private Notes.** See 329.82.

.6 **Stocks and Stock Exchanges. Bonds.**

See T. Williams .7 **Credit. Credit System.**

.8 **Interest and Usury.** See also 336.31, Public securities.

.9 **Counterfeiting. Forging.** See 343, Criminal Law.

333 Land. Ownership, Rights, and Rent.

See 338, Production; and 630, Agriculture. .09 + divide geographically (Crerar)

.1 **State Ownership.** Nationalization of land. For single tax see 336.22 (Crerar)

.2 **Community Ownership.**

.3 **Private Ownership.**

.4 **Absentee Owners. Alien Owners.**

.5 **Rent of Land for Cultivation.**

.6 „ „ **Building.**

.7 **Forests.**

.8 **Mines.**

.9 **Fisheries.** Ownership & control of water (riparian rights, irrigation, fisheries, etc.) Crerar

334 Co-operation.

.1 **Building Societies. Loans. Organization.** See also 332.32.

.2 **Co-operative Banks.** See also 332, Banks.

.3 „ **Insurance Societies.** See also 368, Insurance.

.4 „ **Housekeeping.** See also 640, Domestic economy.

.5 „ **Consumptive Associations. Stores.**

.6 „ **Productive Associations. Factories.**

.7 **Friendly Societies.**

.8 **Burial Societies.**

.9 Divide geographically (Crerar)

Anarchists (Keep)

335 Socialism and Communism. (Crerar W. Handy)

.01, Theory of property. See also 330.1

.1 **English Socialism.**

.2 **Saint Simonism.**

.3 **Fourierism.**

.4 **Communism.**

.5 **German Socialism. Social Democracy.**

.6 **State Socialism. Socialism of the Chair.**

.7 **Christian Socialism.**

.8

.9 **Socialistic Communities.**
Divided by countries like 930–999.

336 Finance.

.1 **State Domain and Properties.**

.11 Management and Income from Rents.
.12 Sale.
.13 Land Claims.
.14 Land Grants to Railroads, Colleges, etc. See also 379.12, Education.
.19 State Monopolies. e. g. French State Monopoly of Tobacco Trade. See also 338.8, Monopolies.

.2 **Taxation.**

.21 Direct.
.22 Real Estate Single tax (Crerar) ~~See also 333.1~~ (Lancefield)
.23 Personal.
.24 Income.
.25 Poll.
.26 Customs. Specific or Ad Valorem. See 337, Protection.
.27 Excise. Licenses. Liquor Dog. Legacies. Stamp Duties. See also 178.4.
.28 Local Taxes. See also 379.13, School funds. & 352.1, Local taxation (Lancefield)
.29 Assessment and Collection of Taxes.

.3 **Loans. Public Securities.**

.31 Interest-bearing Securities. See also 332.8, Interest.
.32 Floating Debt.
.33 Sinking Fund.
.34 Public Credit.
.35 Annuities.
.36 Repudiation.

.4–9 **Finance of Special Countries.** Divided geographically like 940–999.

337 Protection and Free Trade.

See also 336.26, Customs.

.1 **Absolute Free Trade. No Tariff.**

.2 **Free Trade, i. e. Tariff for Revenue only.**

.3 **Protection.**

.4 **Subsidies.**

.5 **Duties on Special Articles. Steel, Wool, etc.**

.6 „ „ **Raw Materials.**

.7 „ „ **Books and Works of Art.**

.8 **Duty Free Importation for Colleges, etc.** See also 021.9, Libraries

.9 **Reciprocity.**

338 Production. Manufacture. Prices.

.09 Div. geographically like Statistics

.1 Agricultural products.
.2 Mining products. See also 332.41, Coinage metals.
.3 Water ,, Fish, ice, etc.
.4 Manufactured products. Machinery in industry.
.5 Prices.
.6 Guilds. See also 331.88, Trades unions.
.7 Corporate industries.
.8 Monopolies. See also 336.19, State monopolies.
.9 Industrial legislation. Divided geographically like 940–999.

339 Pauperism. See also 379.22, Illiteracy; 362.5, Pauper asylums; 331.6, Pauper labor.

340 Law.

General works.

Most periodicals belong in Private law, 347.05.

.1 Philosophy. Theories. Law of nature.
.2
.3 Antiquities. Torture. Trial by ordeal. Duel, etc.
.4 Trial by jury.
.5 Comparative legislation.
.6 Medical jurisprudence. See also 614.23, Expert testimony.
.7 Education. Law school. Office training.
.8 Polygraphy. Collections.
.9 Legal anecdotes and miscellany.

Public law.

341 International law.

.01, Philosophy; .02, Compends, etc., like 300.

.1 International congresses.

Of diplomatic agents for settling international relations. Congresses on special topics go with their subjects; e. g. 332.44, on Coinage.

.2 Treaties. Texts and history.

Class with most important country, dividing like 940–999.

.3 Law of war. Captives. Neutrals.
.4 International criminal law.
.5 International private law.
.6 Arbitration.
.7 Diplomacy.
.8 Consular systems.

342 Constitutional law and history.

Divided by countries like 930–999. Under each, works may be divided: 1, Texts of constitution; 2, Conventions; 3, Systems; 4, Essays; 8, Polygraphy; 9, History.

For Administrative law, see 350.

343 Criminal law.

.1 Criminal trials.
.2 Punishments.

Corporal. Death penalty. Hard labor. Confinement.

.3–9 Of special countries. Divided by countries like 930–999.

Under each country, works may be divided: 1, Penal codes; 2, Reports; 3, Criminal procedure; 4, Text books and manuals.

344 Martial law.

Private Law.

345 U. S. Statutes and Cases.

Divide each of the sections .1–.5, using 1, U. S.; 2, Individual states arranged alphabetically; e. g. Statutes at large of U. S., 345.11; Acts and resolves of Mass., 345.12.

.1 Session Laws.
.2 Codes. Revised Statutes.
.3 Law Digests (of Statutes).
.4 Reports.

Use .4, U. S. Supreme Court; .41, U. S. Circuit and District Courts; .415, Periodical collections of various states; e. g. Eastern Reporter, etc.; .42, Reports of individual states.

.5 Digests of Cases.

346 British Statutes and Cases.

Divided like 345. Includes all reports in English language except U. S. reports.

347 Treatises. American and English Private Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies, Bar associations; .08, Polygraphy; .09, History.

Put law of special topics with the subject; e. g. Insurance law, 368. The divisions .1–.8 may be disregarded and all English law text-books arranged in one alphabet by authors. An elaborate division, similar to Medicine, will be published after further revision.

.1 Persons. Legal Capacity.
.2 Realty.
.3 Chattels. Movables.
.4 Contracts.
.5 Torts.
.6 Family Law and Inheritance.
.7 Commercial and Maritime.
.8 Equity.
.9 Civil Trials. Procedure.
.91 Civil Trials.
.92 Pleading.
.93 Forms.
.94 Evidence. Testimony in general not limited to civil trials.
.95 Remedies.
.96 Justices of the Peace. Notaries. Sheriff.
.97 Organization of Courts.
.98 Jurisdictions.
.99 History of Special Courts.

348 Canon Law.

349 Foreign Law.

Divided like 930–999, and under each modern state divided like 345 with decimals .71 to .79 used for Treatises like 347. e. g. 349.4475 is French Law of Torts. 349.442 is French Code. Roman Law is divided:

.37 Roman Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History.

.371 Sources. Ante-Justinian.
.372 ,, Justinian.
.373 History and Criticism of Sources.
.374 Institutes. Ancient Roman Law.
.375 Pandects. Modern ,, ,,
377 Treatises on Special Topics.
Divided like 347.

See J. W. Jenks

350 Administration.

Little used (Dayton)
Needs a note (Gimits)

Including Military science. .1, Theory; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History. A large number of the questions properly placed under Administration are classed with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject "Administration" and to provide for cross references by those specially interested. See also 342, Constitutional law and history.

351 Administration of Central Government.

.1 Organization of Civil Service.

Officers. Method of election or appointment. Official functions and powers. Mutual relations.

.2 Civil Lists.

.3 Examination.

.4 Tenure of Office. Discipline. See 351.92, Power of removal.

.5 Pensions.

.6 Reform. Spoils System vs. Office-holding Class.

.7 Subjects of Administrative Action.

See also 353, United States; 354, Foreign states.

.71 Financial Administration.

See 336, Finance, Public property, Taxation.

.72 Budget. Public Accounts.

.73 Internal Affairs.

See also 323, Domestic relations.

.74 Police Measures.

See Gimits .75-.76 Public Safety and Order.

See also 352.2, Police; 365, Prisons, etc.

1, Press.

2, Reunion and Association. Riots (Keep)

3, Weapons.

.76 Vice and Good Manners.

1, Liquor Regulation. See 178, Temperance.

2, Public Gaming. See 174.6, Ethics.

3, Public Begging, etc. See 339, Pauperism.

4, Prostitution. See 176.5, Ethics.

.77 Sanitary Police.

See 352.4, Boards of health; 614, Public health, etc.

.78 Accidents. See 614.8, Public health.

1, Buildings. See 614.85.

2, Fires. See 614.84.

351.8 Promotion of Public Welfare.

.81 Means of Communication.

See 380, Commerce, Communication.

1, Highways. See 386; 352.7, Local government.

2, Railways. See 385.

3, Waterways. See 386; 387.

4, Ferries.

5, Bridges. See 352.7, Local government.

6, Post Office. See 383.

7, Telegraphs. See 384.

.82 Trade and Industry.

1, Weights and Measures. See 389, Commerce.

2, Coinage and Money. See 332, Banks, Money.

3, Landed Industry.

Agriculture. See 630, Useful arts; 338.1, Production.

Forests. See 634.9, Agriculture; 333.7, Land.

Mines. See 622, Mining; 338.2, Production; 333.8, Land.

4, Commercial and Manufacturing Industry.

See 380, Commerce; 338, Production.

5, Institutions of Credit. See 332, Banks, Credit.

Savings Banks. See 332.2.

Mutual Benefit Societies. See 334, Coöperation.

Insurance. See 368; 334.3, Coöperative insurance.

Monts de piété. See 332.33.

.83 Labor. See 331, Capital, Labor, Wages.

.84 Public Charity.

See 339, Pauperism; 360, Associations and Institutions.

.85 Education and Worship.

1, Public Education. See 379, Education.

2, Public Libraries. See 027.4, Library economy.

3, Art Museums. See 708, Art.

7, Worship. See 322, Church and State.

Military and Naval. See 355-359, Army and Navy.

Justice. See 340, Law.

Foreign Affairs. See 341, International law; 327, Political science.

.9 Control over the Administration.

.91 Administrative Control.

By superior officers.

.92 Disciplinary Power.

Power of removal. See also 351.4, Tenure of office.

.93 Supervision.

Power to annul or amend specific acts.

.94 Judicial Control.

1, Ordinary Courts. See 347.5, Law of torts.

5, Criminal Courts. See 343, Criminal law.

.95 Administrative Courts.

.96 Parliamentary Control.

.97 Petitions and Addresses.

.98 Investigations.

.99 Impeachment.

102

352 Local Government. Town. City. County.

See also 379, Public schools; 020, Libraries.

General Questions of Municipal Administration.

.001 Growth and importance of cities.
.002 Cities and state control.
.003 City as a juristic person,—a corporation.
See also 347.1, Law of corporations.
.004 City organization, municipal elections.
.005 Municipal civil service.
.006 City reform clubs (for coll. of statistics, agitation, etc) For Polit. organizations see 303. (T. Irms)

Local Administration of Special Countries and Cities.

.03–.09, divided by countries like 930–999.

.042 Local Government in England.

Arrange matter relating to special cities alphabetically by name of city and subdivide the remaining works as follows:

1, County.
2, Municipal borough.
3, Parish.
4, Union. See 339, Pauperism.
5, Sanitary districts. See 614, Public health.
6, School districts. See 379, Education.
7, Highway areas. See 352.7.

.043 Local Government in Germany.

Special cities like 352.042.

1, Province. Landtag, Provincial Committee, Director.
2,
3, Circle, Circle Diet, Circle Committee, Landrath.
4, Commune.
5, Towns.
6, Township.

.044 Local Government in France.

Special cities like 352.042.

1, Department.
2, General council.
3, Departmental commission.
4, Prefect.
5, Arrondissement.
6, Commune.
7, Mayor.
8, Municipal council.

.01 see file

.1 Finances. City Property and Local Taxation.
See also 336, Finance.

.2 Police. See also 365, Prisons (Lancefield)

.3 Fire Department. See also 621.68, Fire engines; 614.84, Fires.

.4 Public Health. Board of Health. See also 614, Medicine.

.5 Public Buildings and Works.

.6 Water and Sewerage Works. See also 628, Sanitary engineering

.7 Streets. Highways. Bridges. Parks.

.8 Licenses. Hack, Huckster, Entertainment, etc.

.9 Other Topics.

Public Documents, with Ames no. (Crerar)

Rathbone (Te) 353 United States and State Government.

See also 342.73, Constitutional law and history.

.01, Administrative centralization.
.02, Separation of powers.
.03, President.
.04, Departments.
.05, Cabinet.

.1 State Department.
.2 Treasury " See also 336.73, Finance of U. S.
.3 Interior "
.4 Post Office " See 383.
.5 Judiciary "
T. Williams .6 War " See 355, Army. Military science.
.7 Navy " See 359, Navy. Naval science.
.8 Other "
Obscure. Subd. (N.H.S.R.) .9 State Government. Divided like 974–979.

Apply same decimals for State and Foreign Governments. For departments not here specified use .8 and .9, and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dept. of D. C. 353.97535.

353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th Regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476.

354 Organization of Central Government. Foreign States.

See also 342, Constitutional law and history.

Divided geographically by countries like 930–999. Under each country the U. S. divisions, .1, State, .2, Treasury, etc., may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Monarch.
04, Privy council.
05, Cabinet.

.43 Administration of Germany. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Empire.
04, Bundesrath.
05, Emperor.
06, Ministry.
07, States. Monarchs.
08, Landtag. Ministers. Council of state.
09, Free cities.

.44 Administration of France. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, President.
04, Ministers.
05, Council of state.

355 Army. Military Science. See 623, Military engineering.

Limited to military science, tactics, etc. For War department of U. S. or history of regiments, see 353.6 and 353.9. Divided by a 0, like 350.

356 Infantry.

357 Cavalry.

358 Artillery.

359 Naval Science. See 623.8, Naval engineering.

Divided by a 0, like 350.

360 Associations and Institutions.

This covers what is best known as "Charities and Corrections," and general works on this topic go in 360. Note. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London are 367.9421.

.5 Per.

.1.05 Per.

361 Charitable. See also 377.7, Charity schools.

362 Hospitals, Asylums, and Allied Societies.

For Inebriate asylums, see 178.6, Temperance reformatories.

.1 **Sick and Wounded. Incurables. Eye and Ear Infirmaries. Lying-in Hospitals. Dispensaries.**

.2 **Insane.** See also 132.1, Insanity.

.3 **Idiotic.** See also 132.2, Idiocy; 371 93, Education.

.4 **Blind. Deaf. Dumb.** See also 371.91 and 371.92, Education.

.5 **Paupers.** See also 339, Pauperism; 331.6, Pauper labor.

.6 **Aged.**

.7 **Children. Orphans. Foundlings.** See also 179.2, Cruelty, ethics.

.8 **Other.**

.9 **Special Countries.**

Divided like 930–999; e. g. 362.942 is Hospitals of England.

363 Political. Tammany, Primrose League, Ku-Klux, etc.

364 Reformatory. Schools. Discharged convicts. Criminal classes.

365 Prisons. Discipline. See also 331.5, Convict labor.

366 Secret Societies. .1, Masons; .2, Knights of Pythias; .3, Odd Fellows; .4, Rosicrucians.

See also 371.85, College secret societies.

367 Social Clubs.

368 Insurance. See also 334.3, Co-operative Insurance.

.1, Fire; .2, Marine; .3, Life, .31, Annuities; see also 336.35, Public annuities; 519.5, Probabilities; **.4, Accident; .5, Animal and Crop; .6, Plate Glass; .7, Boiler; .8, Credit and Bonds; Land Titles; .91, Government Control; Commissioners.** 93–99 divided geographically like 930–999; e. g. Insurance in New York (including state reports, etc.) is 368.9747.

369 Other. Cincinnati.

370 Education.

.1, Philosophy, Theory; .2, ; .3, Dictionaries, Cyclopædias; .4, Essays, Addresses; .5, Periodicals (for College Papers, see 378); .6, Societies, Associations; .7, Education, Teachers' Institutes, Normal Schools; .8, Polygraphy; .9, History divided by countries, like 930–999.

371 Teachers, Methods, and Discipline.

.1 **Teachers.**

.11 Qualifications.

.12 Training.

.13 Examination. Certificates.

.14 Appointment. Tenure.

.15 Permanent Profession vs. Stepping-stone Theory.

.16 Salary and Promotion.

.17 Pensions for Teachers.

.18 Women as Teachers.

.19

.2 **School Organization.**

.21 Admission. Enrollment. Matriculation.

.22 Tuition Fees.

.23 Terms. Vacations. Holidays. See also 613.76 and 613.77, Hygiene.

.24 Hours. Recess.

.25 Classes. Grades.

.26 Marking System.

.27 Examinations. Oral, Written. Cramming. See also 428.9, Language

.28 Promotions.

.29 Graduation. Diplomas.

.3 **Methods of Instruction.**

.31 Rote or Concert Teaching.

.32 Text Books. Recitations.

.33 Lectures.

.34 Developing or Inductive Method.

.35 Art of Questioning.

.36 Topical Method.

.37 Seminary Method.

.38 Laboratory Work.

.39 Other Methods. Correspondence.

.4 **Systems of Education.**

.41 Bell and Lancaster, or Monitorial.

.42 Fellenberg's or Manual Labor.

.43 Military Organization.

.44 Pestalozzian.

.45 Jacotot's.

.46 Fröbel's. See 372.2, Kindergarten.

.47 "Quincy System."

.5 **Government. Discipline.**

.51 Rules.

.52 Attendance. Truancy. Tardiness.

.53 Rewards. Prizes.

.54 Punishment.

.55 Corporal Punishment.

.56 Confinement. Tasks.

.57 Monitors.

.58 Moral Government. Alcott.

.59 Student Self-government.

371.6 **School Furniture and Apparatus.**

.61 Furniture.
.62 Lavatories, etc.
.63 Globes, Maps, etc. 912.
.64 Libraries. See 021.3. 027.8.
.65 Museums.
.66 Apparatus.
.67 Laboratories. 542.1.
.68 Observatories. 522.1

.7 **School Hygiene.** 613.

.71 Health of Students. Over-study.
.72 Care of Eyes. Effect of Study.
.73 Care of Body. Gymnastics. Calisthenics. See also 613.71, Hygiene.
.74 Recreations. Games, etc. See also 613.74, Play; 796, Out-door sports.
.75 Championship Games. Boat-races.
See also 175.7, Ethics; 613.73, Hygiene; 796, Out-door sports.
.79 Other Special Topics.

.8 **Student Life and Customs.**
See 784.6, College Songs; 378.29, College Costumes.

.81 Student Honor. Cribbing. Cheating. Keys. "Ponies."
.82 Fagging and Hazing.
.83 Student Organizations.
.84 Literary Societies.
.85 Secret Societies. See also 366, Secret societies. Chapters in special college go here with reference from the college.
.86 Society Houses. Halls. Temples, etc.
.87 Dormitories.
.88 Commons.
.89 Customs. Celebrations. Triumphs. Burnings, etc.

.9 **Education of Special Classes.**

.91 Blind. See also Asylums, 362.4; 655.
.92 Deaf and Dumb. See also Asylums, 362.4.
.93 Feeble-minded. See also 362.3, 132.2, 920.8.
.94 Freedmen. Negro.
.95 Indians.
.96 Orientals.
.97 Criminals. Reform Schools. See also 364, Reformatories.
.98 Special Nationalities. e. g. Germans in U. S.
.99 Co-education of Races.

372 Elementary Education. Primary Schools.

.1 **Special Methods of Government.**
.2 **Kindergarten.**
.3 **Observing Powers. Object Teaching. Science.**
.4 **Reading. Alphabet. Phonics and Word Methods.**
See also 428.6, Elementary readers.
.5 **Elementary Writing and Drawing.** See also 741.
.6 **Elementary Grammar. Language Lessons.** See also 428.2.
.7 **Elementary Arithmetic.** See also 511.
.8 **Elementary Geography.** See also 910.7.
Some may prefer to put these Elementary Text Books with their subjects, but a Primer of Geography is more useful to the Student of Elementary Schools and Methods than to one interested in Description, Travels, and Geography. Text books, except primary, go with the subject.

.9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; e. g. 372.942, English elementary schools.

373 Intermediate. Academic. Preparatory.

The discussions of theories, methods, etc., are classed regardless of the public support; but schools classed in 372.9, 373.4–9, 376.9, 377.3–7, and 378.4–9 are all private or endowed, except parts of Primary, schools for women, and colleges which, even supported by public funds, are preferably classed in 372.9, 376, and 378. All other "public" schools, i. e. paid for from the public treasury, are groupt under 379.4–9. Besides schools, such topics as "American students in Europe" go naturally in 373.4 or, if the topic be "European universities," in 378.4. Peabody & Slater funds go in 373.75.

.1 **Home Education. Tutor. Governess.**
.2 **Day Schools.**
.3 **Boarding Schools.**
.4–9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; 373.42, Higher English Schools.

374 Self-education and Culture.

.1 **Private Reading. Conversation.** See 028.
.2 **Reading Circles. Book and Periodical Clubs.**
.3 **Lyceums. Literary Clubs.**
.4 **Debating Societies.**
.5 **Popular Lectures.**
.6 **Popular Summer Schools.**
See also 407, 507, for Schools of Science, etc., for specialists, which are classed with their subject not with these popular gatherings.
.7 **Chautauqua Courses.**
.8 **Societies for Home Study, Correspondence Colleges.**
.9 **Institutions. e. g. Cooper Union.**

375 Curriculum.

.01, Order of Studies; .02, Single Course; .03, Parallel Courses; .04, Optional Studies; .1–.9, Special Studies, in the order and subdivided like 100–999. e. g. 375.5, Place of Science in Curriculum; 375.82, Place of English Literature; use 375.84 also for General Questions on Modern Languages, and 375.88 for Classics.

376 Education of Women. 396.4.

.1 **Physical Capacity of Women.**
.2 **Mental Capacity of Women.** See 136.1.
.3 **Domestic Education.**
.4 **Fashionable Education.**
.5 **Conventual Education.**
.6 **Collegiate Education.**
.7 **Co-education.**
.8 **Colleges for Women.** Degree conferring colleges go here. All other schools for women go in 376.9.
.9 **Special Countries and Schools. History. Reports, etc.**
Subdivided like 940–999; 376.943, Education of women in Germany.

377 Religious, Ethical, and Secular Education.

.1 **Bible in public schools.**

.2 **Ethical education.** See also 170.7, Ethics.

.3 **Monastic schools.** See also 271, Monastic orders.

.4 **Diocesan schools.**

.5 **Parochial schools.** See 257.

.6 **Missionary schools.** See 266.

.7 **Charity schools.** See also 361, Charitable institutions.

.8 **Church and education.** See also 261.5, Church.

Subdivided like 280; e. g. 377.82, Relation of Roman Catholic church to education.

.9 **Non-Christian religions and education.**

Subdivided like 290; e. g. 377.97, Relation of Mohammedanism to education.

378 Colleges and Universities. With power of conferring degrees.

- Periodicals, etc.

.01. Entrance requirements.

.1 **University Education.**

.13 University extension.

.2 **Academic Degrees and Costume.** See 614.21, Medical degrees.

.21 Degree-conferring body. College, University, or State.

.22 Graded degrees. Cum laude, etc.

.23 Degrees in course.

.24 Degrees on examination.

.25 Honorary degrees.

.26 Degrees by purchase or forgery.

.27

.28

.29 Academic gowns and hoods.

.3 **Fellowships. Endowment of research.**

.4-9 **Special countries and colleges. History, reports, etc.**

For Women's colleges, see 376.8.

Subdivided like 940–999. e. g. 378.42, English universities; 378.741, Maine colleges.

The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figure) used to designate the college; e. g. a history of Harvard college would be marked 378.744 — HE, and a second history would be book numbered HE1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers.

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS.

A	Charter and Statutes.
B	Trustees. Regents. Resolutions, reports, etc.
C	Administration. President, Chancellor. Reports, etc.
D	Finances. Treasurer's reports.
E	History. Foundation, growth, etc.
F	Biography. Necrology.
G	General Catalogs. Triennials, etc.
H	Annual Catalogs. Attendance, registers, etc.
I	Handbooks. Circulars of information.
J	Bulletins. Official periodicals.
K	Addresses. Inaugurals. Baccalaureates. Commencements, etc.
L	Programs. Tickets. Memorabilia.
M	Faculty (as a body). Publications. Regulations. Certificates for admission, etc.
N	Lectures. Class manuals. Examination questions.
O	Student theses. Orations, essays, etc.
P	Student catalogs. Society annuals, etc.
Q	Student periodicals.
R	Student societies, including periodicals.
S	Student miscellany. Songs. Class day, etc.
T	Alumni. Societies, committees, etc.
U	Classes. Histories, records, etc.
V	Pictures. Class albums.
W	Buildings and grounds. Descriptions, maps, etc.
Z	Schools. Divinity, law, medical, etc.

379 Public schools. State education.

.1 **Public school system.**

.11 School funds.

.12 National aid to education. Land grants. See also 336.14, Finance.

.13 Local Taxation. See also 336.28, Taxation.

.14 School laws. School age.

.15 School supervision; National, state, and local. Duties of parents.

.16 National and State Universities.

Only discussion here; for special colleges, see 378.4-9.

.17 Secondary schools. High schools. Academies. Grammar schools.

.18 Primary schools.

.19 Evening schools.

.2 **Illiteracy.**

.21 Illiteracy and Crime.

.22 Illiteracy and Pauperism. See also 339, Pauperism.

.23 Compulsory education.

.24

.3 **Public vs. private and endowed schools.**

.4-9 **Special countries, sections, cities or schools.**

Subdivided like 940–999. e. g. 379.73, Reports of U. S. Commissioner of Education; 379.74, Education in Massachusetts; 379.7471, in New York City.

380 Commerce, Communication.

The technical side of these questions goes mostly in 650, Useful Arts. Here belong discussions of social and political relations; e. g. government control of railroads, telegraphs, etc.

381 Domestic Trade.

382 Foreign Trade. Consular reports.

383 Post Office. See also 353.4, U. S. administration.

384 Telegraph. Cable. Telephone. See 654.

385 Railroad and Express. See 656, Railroading.

386 Canal and Highway Transportation. "

387 River and Ocean Transportation. "

388 City Transit. See 625.

389 Weights and Measures. Metrology. See 658.

390 Customs. Costumes. Popular Life.

These heads are for discussions by topic. Customs, etc., of any special country go in 913–919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese Customs, 915.2. For Customs of Primitive Man, see 571.

391 Costume and Care of Person. See 646, Clothing; 613.4, Hygiene.

- .1 Costumes of Men.
- .2 Women.
- .3 Children.
- .4 Extremities. Hats, Gloves, Sandals, Shoes, Stockings, etc.
- .5 Hair Dressing, Barbers.
- .6 Care of Person, Bathing, Toilet.
- .7 Ornaments and Jewelry.
- .8

392 Birth, Home, and Sex Customs.

- .1 Birth Customs, Christening, Circumcision.
- .2 Sacrifice and Exposure. See 173.4, Ethics.
- .3 Family and Home Relations.
- .4 Betrothal.
- .5 Marriage.
- .6 Sex Relations, Concubinage.
- .7

393 Treatment of the Dead. See 614.6, Public Health.

- .1 Earth Burial. See 719, Cemeteries.
- .2 Cremation.
- .3 Embalming, Mummies.
- .4 Exposure.
- .9 Special Funeral Customs. Wake, Suttee.

394 Public and Social Customs.

- .1 Eating, Banquets.
- .2 Shows and Diversions.
- .3 Games, Dances, etc.
- .4 Ceremonies.
- .5 Processions.
- .6 Fairs.
- .7 Chivalry, Tournaments.
- .8 Duelling, Suicide.

See 179.7, Ethics; 340.3, Law, Trial by Ordeal.

395 Etiquet.

396 Woman's Position and Treatment.

For Costumes, see 391.2; Biography, 920.7.

If a special library about women is wished, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc., but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of Women, from the rest of medicine. Books on woman in general go in 396.

.1 **Emancipation.**

.2 **Legal Status, Property, Rights, etc.**

.3 **Political Status.** See 324.3, Suffrage; 329.83, Woman Suffrage Party.

.4 **Education.** See also 376, Education of Women.

.5 **Employment.** See 331.4, Labor of Women; 371.18, Teachers.

Divided like General Classification; e. g. Woman as scientist, 396.55; woman as painter, 396.575; woman as author, 396.58, etc.

.6 **Woman in Home.**

.7 **Delineation of Woman in Art.**

.8 **Delineation of Woman in Literature.**

.9 **Woman in History, Politics, War. Amazons.**

397 Gipsies. Nomads. Outcast Races.

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which has no place in the linguistic groups of 400, as the Gipsy people have no place in the geographical divisions of history.

398 Folk-lore. Proverbs, etc. See also 291-3, Mythology.

This section is for material needed in studying Folk-lore. Mere Stories for Children, unless having a value to students of Folk-lore, go in 823, or in J, if there be a Juvenile collection.

.1 **Primitive Traditions.**

.2 **Legends, tales, traditions.**

.3 **Folk-lore, traditional beliefs and customs, popular superstitions.**

.4 **Fairies, Elves etc.**

.5 **Chapbooks.**

.6 **Riddles.**

.7 **Dream Books.**

.8 **Song Books.** Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folk-lore, etc.

.9 **Proverbs.**

399 Customs of War.

Weapons. War Dances. Treatment of Captives. Scalping. Mutilation. Burning. Cannibalism.

Philology.

400 Philology in General.

In Philology the general works put under 400–419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479, and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group.

401 Philosophy, Origin of Language.

402 Compends, Outlines.

403 Dictionaries, Cyclopedias.

404 Essays, Lectures, Addresses.

405 Periodicals.

406 Societies, Transactions, etc.

407 Education, Teaching Languages.

408 Polygraphy, Collections.

.9 **Universal Language.** .91 **Volapük.**

409 History of Language.

410 Comparative.

410–419 includes *comparative* works in *general* and also those on the Indo-European group in general, but general *and comparative* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language.

411 Orthography, Orthoepy, Alphabets.

412 Etymology, Derivation.

413 Dictionaries, Lexicography.

414 Phonology. Visible Speech.

415 Grammar, Morphology, Syntax.

416 Prosody.

417 Inscriptions. Palæography. See 421.7, 471.7, 481.7, etc.

Rare early mss. are put in 091.

418 Texts.

419 Hieroglyphics. See 493.1.

.1 **Sign Language.** For deaf mute alphabets, see 371.92.

420 English Philology.

.1, Philosophy; .2, Compends; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collective Works; .9, History of the Language.

421 Orthography.

See also this head treated in general grammars placed under 425.

.1 Alphabet. For Deaf Mute Alphabets, see 371.92.
.2 Vowels. Diphthongs. Aspirates.
.3 Consonants.
.4 Phonetic Spelling. Spelling Reform.
.5 Orthoepy.
.6 Accent.
.7 Palæography. Inscriptions.
.8 Abbreviations. For Stenographic and other uncommon contractions and abbreviations, see 653, Shorthand.
.9 Punctuation.

422 Etymology. Derivation.

422 is limited to Derivation. For Inflection, also called Etymology, see 425.1.

.1 Origin and Laws of Language.
.2 Prefixes. Suffixes.
.3 Reduplication.
.4 Foreign Elements.
.5 Noun Forms. Case, Number, Diminutives.
.6 Adjectival Forms. Degrees of Comparison.
.7 Pronominal Forms. Personal, Possessive, Relative, etc.
.8 Verbal Forms. Moods, Tense, Voice, etc.
.9 Particles. Adverbs, Prepositions, etc.

423 Dictionaries. Idioms.

.1, Idioms; .2, English; .3, German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i.e. that by which it is alphabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tongues is more convenient. References in either case show what may be found in the other place.

424 Synonyms. Homonyms.

425 Grammar.

425 includes General Works, covering also Orthography and Prosody.

.1 Morphology. Inflection. Divided, .5 Nouns, etc. See 422.
.2 Syntax.
.3 Arrangement of Words and Clauses.
.4 Particular Sentences; Conditional, Hypothetical, etc.
.5 Nouns.
.6 Adjectives. Articles.
.7 Pronouns.
.8 Verbs.
.9 Particles.

426 Prosody.

See also the head Prosody, in General Grammars 425.

.1 Quantity and Accent.
.2 Versification.
.3 Feet.
.4 Figures of Prosody.
.5 Meters.
.6 Rhymes.
.7 Strophe and Antistrophe.
.8 Textbooks for Writing Verse.
.9

427 Dialects. Early Forms of Language. Slang.

Subdivided by geographical divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect, 427.41. The dialects of other languages take the geographical subdivisions of their countries. Dialects not provided for in these heads are placed with the last, e. g. American and Scotch with 427.9. The division by time is made with a fifth figure after 0; the earliest form of the language is marked .01; .09 is used for modern slang, e. g. 427.01, Old English.

428 School Books. Texts for Learning the Language.

Including only books for *learning* the language, with grammatical or philological notes, etc. For other works see the literature of the language, 820.

.1 Spelling Books.
.2 First Lessons. Elementary Composition. For Rhetoric see 808. Including in other languages books like Fasquelle, Ollendorff, Latin Prose, etc. See also 372.6, Elementary Grammars.
.3 Errors of Speech. Vulgarisms. Use of Words. See 427.09, Slang; 424, Synonyms.
.6 Elementary Readers. See also 372.4, Education.
.7 Selections.
.8 Texts of Individual Authors.
.9 Examination Papers.

429 Anglo-Saxon.

The above subdivisions of English are used for all other languages and for 410, Comparative Philology.

All Languages are subdivided like 420 English.

430 German.

437.01, Old High German; 437.02, Middle High German.

439 Minor Teutonic. Including general works on Teutonic group.

.1 Low German.

.2 Frisian. Old Saxon.

.3 Dutch. Flemish.

.4 Platt Deutsch.

.5 Scandinavian.

.6 Old Norse. Icelandic. Faroese.

.7 Swedish.

.8 Danish. Norwegian.

.9 Gothic.

440 French.

449 Provençal

Old French, as the earliest form of the language, is 447.01

450 Italian.

459 Wallachian.

.9 Rumansh.

460 Spanish.

469 Portuguese.

470 Latin.

479 Minor Italic. Mediæval Latin.

Including general works on Romance group.

480 Greek.

Divide 487, Greek Dialects, like 930; e. g. 487.2, Alexandrian Greek; 487.3. New Testament Greek; 487.81, Macedonian; 487.923, Ionic, etc.

489 Minor Hellenic. Modern Greek.

Including general works on Hellenic group.

Works on Latin and Greek together, unless very clearly most useful in the Latin, go with the Greek, which here as elsewhere is made to include general works on the ancient classics.

490 Minor Languages.

Each language subdivided if wished like 420 English.

491 Minor Indo-European.

(Beside Teutonic, 420–439, Italic, 440–479, and Hellenic, 480–489.) This head, 491, includes general works on the Indo-European tongues, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also 410.

.1 Indic.

.2 Sanskrit. Prakrit.

.3 Pali.

.4 Modern East Indian Languages.

Excluding Dravidian, which is 494.

.41 Sindhi.

.42 Panjabi.

.43 Hindustani. Hindi.

.44 Bengali.

.45 Uriya. Orissa.

.46 Marathi.

.47 Gujerati.

.48 Singhalese.

.49

.5 Iranic.

.51 Old Persian.

.52 Zend. (Avestan.) Old Bactrian.

.53 Pehlevi. (Huzwaresh.)

.54 Armenian.

.55 Modern Persian.

.56 Ossetic.

.57 Kurdish.

.58 Afghani.

.59

.6 Keltic.

.61 Gadhelic Group.

.62 Irish.

.63 Gaelic or Scotch.

.64 Manx.

.65 Cymric Group.

.66 Welsh or Cymric.

.67 Cornish.

.68 Armorican or Bas Breton.

.69 Basque.

.7 Russian.

.79 Ruthenian

491.8 **Other Slavonic.**

South East Slavonic Group.

.81 Bulgarian. (Church Slavonic.)
.82 Servian.
.83 Kroatian.
.84 Slovenian.

West Slavonic Group.

.85 Polish.
.86 Bohemian.
.87 Moravian. Slovakian.
.88 Sorbian.
.89 Polabian.

.9 **Lettic.**

.91 Old Prussian.
.92 Lithuanian.
.93 Lettish. (Livonian.)

492 Semitic.

Northern Group.

.1 **Aramaic.**
.19 Babylon and Nineveh Cuneiform.
.2 **Chaldee.**
.3 **Syriac. (Peshito.)**

Central Group.

.4 **Hebrew.**
.5 **Samaritan.**
.6 **Phenician. (Carthaginian.)**

Southern Group.

.7 **Arabic.**
.8 **Ethiopic. (Amharic.)**
.9 **Himyaritic.**

493 Hamitic.

.1 **Old Egyptian.** See 419 Hieroglyphics.
.2 **Coptic.**

494 Scythian. Ural-Altaic. Turanian.

Dravidian. Tamil. Finnish. Turkish.

495 Eastern Asiatic. (General) 1, Chinese. 2, Japanese,

496 African.

Excluding 493 Hamitic, 492.8 Ethiopic, etc., included in families above.

497 North American.

498 South American.

499 Malay-Polynesian and other.

The Gypsy language is not assigned to any group, but is placed for convenience with 397. Gypsies.

Natural Science.

500 Science in General.

501-509 all have *Science in General* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

501 Philosophy, Theories, Utility, etc.

502 Compends, Outlines, Ancient and Mediæval Science.

503 Dictionaries, Cyclopedias, etc.

504 Essays, Lectures, Addresses.

505 Periodicals, Scientific Magazines.

506 Societies, Transactions, etc.

507 Education, Methods of Teaching and Studying, etc. Museums. See also 370.

508 Polygraphy, Collected Works, Extracts, etc.

.1, Extracts; .2, ; .3, General scientific travels; .4—.9, Travels and surveys (if general) divided geographically like 940–999.

509 History of Science.

510 Mathematics.

Works on Mathematics in General, not limited to any one or two sections, are grouped by form of treatment like Science in General above; *i. e.*, into Mathematical.

510.1, Philosophy; .2, Collections, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Education; .8, Logarithmic and other Tables, Instruments; .9, History.

511 Arithmetic. See 372.7, Teaching arithmetic.

.1 **Systems of Arithmetic.** See also 512.81.
.2 **Notation and Numeration. Fundamental Rules. Abacus.**
.3 **Prime Numbers.**
.4 **Fractions.**
.5 **Analysis. Permutation and Combination.**
.6 **Proportion and Progression.** .61, Magic Squares.
.7 **Involution and Evolution.**
.8 **Mercantile Rules. Interest. Alligation. Mensuration. Gauging.** See 658, Business manuals.
.9 **Problems and Tables.**

512 Algebra.

.1 **Systems of Algebra.**

.2 **Numerical Equations. Imaginary Expressions.**

.21 Equations, 1st to 4th degrees.
.22 Higher Numerical Equations.
.23 Indeterminate Equations. Diophantine Analysis.
.24 Imaginary Expressions.

.3 **Algebraical Equations. Maxima and Minima.**

.4 **Series. Fractions. Binomial Theorem. Taylor's Theorem.**

.5 **Combinatory Analysis.**

.6 **Proportion and Progression.**

.7 **Involution and Evolution.**

.8 **Higher Algebra.**

.81 Theory of Numbers. See 511.1, Systems of Arithmetic.
.82 Theory of Equations. Complex Variable. See also 517.8.
.83 Determinants.
.84 Symmetric Functions.
.85 Elimination. Eliminants and Discriminants.
.86 Transformations. Substitutions.
.87 Quantics.
.88 Invariants. Covariants. Contravariants.
.89

.9 **Problems and Tables.**

513 Geometry.

Plane and Solid Geometry bound together is put 513. Descriptive Geometry is 515. See also Mathematical Drawing, 744.

.1 **Plane Geometry.**

.11 Right Lines.
.12 Intersecting Lines.
.13 Parallel Lines.
.14 Triangles.
.15 Quadrilaterals.
.16 Other Polygons.
.17 Similarity.
.18 Areas.
.19 Maxima and Minima

.2 **Curves.**

.21 Circles.
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

513.3 **Volumetric or Solid Geometry.**

.31 Lines and Planes.
.32 Intersecting Planes.
.33 Parallel Planes.
.34 Polyedrons.
.35 Pyramids.
.36 Prisms.
.37 Regular.

.4 **With Curved Surfaces.**

.41 Sphere.
.42 Cone.
.43 Cylinder.

.5 **Modern Geometry.**

.51 Points. Lines. Planes. Duality.
.52 Transversals.
.53 Cones. Conics. Involution.
.54 Radical Axes and Centres of Similitude.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Correspondence. Correlation of Figures.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvature.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 **Absolute or Non-Euclidean Geometry.**

.9 **Problems.**

514 Trigonometry.

.1 **Trigonometric Functions. General Formulæ.** See 522.7.

.2 **Trigonometric Series.**

.3 **Exponential Formulæ.**

.4 **Solution of Trigonometric Equations.**

.5 **Plane Trigonometry. Solution of Plane Triangles. Analytical.**

.6 **Spherical Trigonometry. General Formulæ.**

.7 **Solution of Spherical Triangles.**

.8 **Differences of Triangles, Plane and Spherical.**

.9 **Problems.**

515 Descriptive Geometry and Projections.

See also 744, Mathematical drawing.

.1 Orthogonal Projection on Two Planes.

.11 Straight Lines. Planes.
.12 Single Curved Lines.
.13 Double Curved Lines.
.14 Single Curved Surfaces.
.15 Double Curved Surfaces.
.16 Surfaces of Revolution.
.17 Warped Surfaces.
.18 Intersections of Surfaces.

.2 Isometric and Analogous Projections.

.3 Oblique Projection.

.4 Conical Projection.

.5 Spherical Projection. See 526.8, Map projection.

.51 Orthographic.
.52 Globular.
.53 Stereographic.
.54 Polar.
.55 Gnomonic.
.56 Conical.
.57 Cylindric.

.6 Perspective. See also 742, Drawing.

.61 Plane. Parallel. Oblique. Angular.
See also Scene Painting.
.62 Cylindrical.
See also Panorama Painting.
.63 Shadows; Natural and Artificial Light.
.64 Reflections.
.65 Circles, Cylinders and Spheres.
.66 Distortions and Corrections.
.67 Human Figure.
.68 New Methods. Special devices.

.7 Shades and Shadows.

.8 Stereotomy.

.81 Stone Cutting. See also 693.12, Masonry; 730, Sculpture.
.82 Carpentry. See also 694, Building.
.83 Stair Building. See also 694.8, Building; 729.39, Architectural design.

516 Analytical Geometry.

CARTESIAN.

.1 Plane Loci.

.11 Right Lines.
.12
.13
.14 Transformation of Co-ordinates.

.2 Curves.

.21
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

.3 Loci in Space.

.31 Right Lines.
.32 Planes.
.33
.34 Transformation of Co-ordinates.

.4 Curved Surfaces.

.41
.42 Conicoids or Quadric Surfaces.
.43 Ellipsoid.
.44 Hyperboloid.
.45 Paraboloid.
.46 Surfaces of Higher Order.

.5 Modern Analytical Geometry.

.51 Systems of Co-ordinates.
.52 Abridged Notation.
.53 Conics.
.54 Higher Plane Curves.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Method of Projection.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvatures.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 Quaternions. Calculus of Direction and Position

.9 Problems.

517 Calculus.

.1 **Infinitesimal. Method of Exhaustions.**
Differential and Integral Calculus, *bound together*, is put here.

.2 **Differential.**

.21 Series.
.22 Indeterminate Forms.
.23 Change of the Independent Variable.
.24 Theory of Plane Curves. Curve Tracing.
.25
.26 Theory of Curved Surfaces.
.27 Maxima and Minima.
.28
.29 Problems.

.3 **Integral.**

.31 Formulæ of Reduction and Integration.
.32 Definite Integrals. Eulerian Integrals.
.33 Rectification. Quadrature. Cubature.
.34 Multiple Integrals.
.35 Laplace's Functions. Bessel's and Allied Functions.
.36 Elliptic and Hyperelliptic Functions. Abelian Functions.
.37
.38 Differential and Partial Differential Equations.
.39 Problems and Tables.

.4 **Of Variations.**

.5 **Of Functions.**

.6 **Of Finite Differences.**

.7 **Of Operations**

.8 **Of Imaginaries. Complex Variables.** See also 512.82.

.9 Problems.

519 Probabilities.

.1 General Principles. Direct and Inverse Probabilities.
.2 Mathematical and Moral Expectation.
.3 Testimony. Decisions of Juries and Tribunals.
.4 Probability of Future Events deduced from Experience.
.5 Life Contingencies. Annuities. Life Insurance. See 368.3.
.6 Errors of Observation. Mean or Average Values.
.7
.8 Method of Least Squares.
.9 Problems.

520 Astronomy.

520.1, Astrology, see 133.5; 520.2, Compends; 520.3, Dictionaries; 520.4, Essays; 520.5, Periodicals; 520.6, Societies; 520.7, Study and Teaching of Astronomy; 520.8, Collections, etc.; 520.9, History of Astronomy. See Note under Natural Science in General, 500-509.

521 Theoretical Astronomy.

Mathematical investigation of celestial motions, specially of the Solar System. The motions of individual bodies are classed under separate heads in 523.

.1 **Celestial Dynamics.**

.11 General Laws of Equilibrium and Motion. See also 531.2.
.12 Law of Universal Gravitation and Motion Relative to the Sun. See also 531.51.
.13 Problem of Three Bodies.
.14 Figures of Heavenly Bodies.
.15 Rotation of Heavenly Bodies.

.2 **Geocentric and Heliocentric Place.**

.21 Plane of Orbit in Space.
.22 Position of Orbit in its Plane.
.23 Position of Body in its Orbit.
.24 Position of Body in Space.
.25 Heliocentric Longitude and Latitude.
.26 Geocentric Longitude and Latitude.
.27 Variations of Right Ascension and Declination.
.28 Variations of Longitude and Latitude.
.29

.3 **Orbits.**

.31 Definitions of Orbits.
.32 Determination from Three Observations.
.33 Determination from Four Observations.
.34 Variation of Elements of Orbit.
.35 Correction of Approximate Elements of Orbit.
.36 Application of Method of Least Squares.
.37 Kepler's Problem.
.38 Equation of Center and Radius Vector.
.39

.4 **Perturbations.**

.41 Mutual Action of Planets.
.42 Action of Satellites.
.43 Non-Sphericity of Planets.
.44 Resisting Medium.

.5 **Theory of Planets.**

.6 **Theory of Satellites.**

.7 **Theory of Comets.**

.8 **Theory of Eclipses.**

.9 **Precession and Nutation.** See 522.95-6.

522 Practical and Spherical.

.1 Observatories.

.11 General Plan, Location
.12 Material and Mechanism of Dome, Drum, etc.
.13 Transit Buildings, Wings, etc.
.14 High Altitude Observatories.
.15 Portable.
.16
.17
.18
.19 History Reports and Serial publications of Observatories.

.2 Telescopes. See 535.83, Optics.

.21 Reflecting.
.22 Refracting.
.23 Eye Piece and Accessories.
.24 Object Glass.
.25 Mounting, Tube, etc.
.26 Equatorial Mounting.
.27 Transit Mounting.
.28 Observing Chairs, etc.
.29 Famous Telescopes.

.3 Meridional Instruments.

.31 Finding Meridian Line.
.32 Mural Circles.
.33 Meridian Circles.
.34 Transit, Placing in Position.
.35 Collimation Constant
.36 Level Constant.
.37 Azimuth Constant.
.38 Other Constants, Flexure, Index Error, etc.
.39

.4 Extra Meridional Instruments.

.41 Sextant and Quadrant, Reflecting Circle, Astrolabe
.42 Alt-azimuth.
.43 Zenith Telescope.
.44 Transit out of Meridian.
.45 Heliometer.
.46 Equatorial.
.47 Prime Vertical.
.48
.49

522.5 Auxiliary Instruments.

.51 Sidereal Clock and Chronometer.
.52 Electro-Chronograph.
.53 Micrometers.
.54 Personal Equation Machine. See 522.97.
.55 For Illumination.
.56 For Solar Observation.
.57 Artificial Horizons.
.58 Heliostat.
.59

.6 Auxiliary Observations.

.61
.62 Photometry. See 535.2, Optics.
.63 Photography. See 535.85, Optics; 770, Photography.
.64
.65 Polarization. See 535.5, Optics.
.66
.67 Spectroscopy. See 535.84, "
.68
.69

.7 Spherical Astronomy. See also 514.0

.71 Celestial Sphere. Spherical Co-ordinates.
.72 Rectangular Co-ordinates.
.73 Transformation of Co-ordinates.
.74 Differential Variations of Co-ordinates.
.75 Interpolation.
.76 Meridian Line. Variation of Compass.
.77 Reduction of Observations to the Meridian.
.78 Use of Globes.
.79

.9 Corrections.

.91 Parallax.
.92 Refraction. See 535.3, Optics.
.93 Semi-Diameter of Celestial Bodies.
.94 Aberration.
.95 Precession. See 521.9
.96 Nutation. " "
.97 Personal Equation. See 522.54.
.98 Instrumental Errors.
.99

523 Descriptive Astronomy.

.1 Universe.

.11 Structure of Universe.
.12 Nebular Hypothesis.
.13 Plurality of Worlds.
.14 Space and its Temperature.
.15 Resisting Medium.
.16 Cosmic Dust.
.17 Repulsive Force.

.2 Solar System.

.21 Distributive Laws of Planets.
.22
.23 Conjunctions and Oppositions.
.24 Motion of Solar System in Space.
.25 Constitution of Planetary System.
.26 Stability of Solar System. Ecliptic.
.27
.28 Orrery, Planetarium, Gyroscope, etc. See 531.34, Rotation.
.29 Zodiac.

.3 Moon.

.31 Constants (Size, Mass), Distance and Parallax.
.32 Heat and Light. Phases.
.33 Orbit and Motions: Sidereal Month, Tropical. Perigee and Apogee, Sun and Earth's Attraction, Librations. See also 521.6 for Orbit.
.34 Features of Surface, Mountains, Plains, etc.
.35 Atmosphere.
.36 Physical Condition.
.37 Spectrum.
.38 Eclipses
.39 Charts, Photographs, etc.

.4 Planets.

.41 Mercury and intra-Mercurial.
.42 Venus.
.43 Mars.
.44 Asteroids.
.45 Jupiter.
.46 Saturn.
.47 Uranus.
.48 Neptune and trans-Neptunian.
.49 Charts, Photographs, etc.

.5 Meteors and Zodiacal Light.

.51 Aerolites.
.52 Fire-balls.
.53 Meteoric Showers, Radiant Points, etc.
.54 Systems of Meteors.
.55
.56 Connection of Comets and Meteors
.57 Spectrum.
.58 Hight of Atmosphere from Observation.
.59 Zodiacal Light. Aurora Borealis.

523.6 Comets.

.61 Appearance and Development.
.62
.63 Orbits.
.64 Remarkable Comets.
.65
.66 Physical Constitution
.67 Spectrum.
.68
.69 Charts, Photographs, etc.

.7 Sun.

.71 Constants, Dimensions.
.72 Heat and Light: Theories as to Source.
.73 Apparent Motion. Rotation. See 525.38, Tables.
.74 Spots, Faculæ, and Other Features of Surface.
.75 Prominences, Chromosphere. Corona.
.76 Theories of Physical Constitution.
.77 Spectrum.
.78 Eclipses.
.79 Charts, Photographs, etc.

.8 Stars.

.81 Stellar Parallax, Distance.
.82 Heat and Light. Photometric Observations. Magnitude. Visibility.
.83 Proper Motion, Star-drift.
.84 Variable, Double, and Multiple Stars.
.85 Clusters and Nebulæ.
.86 Physical Constitution.
.87 Spectrum.
.88
.89 Constellations, Maps, etc.

.9 Transits and Occultations.

.91 Transits of Mercury.
.92 Transits of Venus and Solar Parallax.
.93 Delisle's Method.
.94 Halley's Method.
.95 Photographic Method.
.96 Transits of Venus to 1874.
.97 Transit of 1882.
.98
.99 Occultations.

[524 Maps, Observations, and Tables.

Series of observatory publications may be kept **together** under 524, or under 522.19 with the History and Reports of the Observatory. Special maps or observations e.g. on Sun or Moon are better placed in sub-sections 9 *under these heads*, with Charts and Photographs, e.g. 523.79, thus leaving these bracketed Nos. 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep *all* Maps and Observations together.

.3 Of Moon. See also 523.39.
.4 Of Planets. See also 523.49.
.5
.6 Of Comets. See also 523.69.
.7 Of Sun. See also 523.79.
.8 Star Catalogues. See also 523.89.]

525 Earth.

.1 Constants.

.11 Mass. Weight.
.12 Density.
.13 Dimensions, Diameter.
.14 Figure. Geomorphy. Equatorial Bel.
.15 Distance from Sun.
.16 Parallax.

.2 Heat. Light.

.3 Orbits and Motions.

.31 Period of Revolution.
.32 Obliquity of Ecliptic to Equator.
.33 Eccentricity.
.34 Perturbations.
.35 Rotation.
.36 Foucault's Pendulum.
.37 Deviation of Falling Bodies and Projectiles.
.38 Tables of the Sun. Apparent Motion. See 523.73, Sun.

.4 Geographical Co-ordinates.

.41 Finding Latitude. See also 527.1.
.42 By Meridian Altitudes.
.43 By Pole Star.
.44 By Altitude of two or more Stars.
.45 By Other Methods.
.46 Finding Longitude. See also 527.2.
.47 Terrestrial Means. Chronometers. Telegraph. Signals.
.48 Celestial Signals. Eclipses. Occultations. Transits.
.49 Lunar Methods.

.5 Seasons.

.51 Effect of Inclination of Equator to Ecliptic.
.52 Effect of Eccentricity of Earth's Orbit.
.53 Secular Changes of Seasons.
.54 Seasons on Mars and Other Planets.

.6 Tides.

.61 Mathematical Theory.
.62 Effect of Sun and Moon in Producing Tides.
.63 Distribution, Diurnal Inequality, Spring and Neap, Priming and Lagging.
.64 Establishment of a Port. Coast Form Modification.
.65 Velocity of Hight of Tide Wave.
.66 Tides on Inland Seas.
.67 Supposed Effect in Retarding Earth's Revolution.
.68 Tide Registering and Predicting Machines.
.69 Tide Tables.

.7 Twilight.

526 Geodesy.

.1 Theory and Determination of Earth's Figure.

.11 Potentials of Ellipsoids.
.12 Equilibrium of Rotating Spheroid.
.13 Law of Ellipticity.
.14 Airy's and Pratt's Theories as to Attraction of Mountains.
.15 Determination of Figure by Airy, by Bessel, and by Clarke.
.16 Ellipsoidal Figure and Position of Axes.
.17 Geoidal Figure.
.18
19.

.2 Base Measuring and Apparatus.

.21 Standards of Length and Temperature.
.22 Apparatus of Struve, Bessel, Colby, U. S. Coast Survey, U. S. Lake Survey, etc.
.23 Adjustments of Apparatus.
.24 Location of Base Line.
.25 Field Operations.
.26 Calculation of Results and Corrections.
.27 Verification.
.28
.29

.3 Field Work of Triangulation.

.31 Reconnaissance.
.32 Stations: Names, Signals, Tripods, Scaffolds and Towers, Surface and Underground Monuments.
.33 Observations, Instruments and Records.
.34 Reduction to Station's Center.
.35 Corrections for Phase of Signal and Eccentricity.
.36 Spirit Levelling.
.37 Barometric Levelling. } These are methods. See 551.53, for results, lists of hights, etc.
.38 Trigonometric Levelling.
.39

.4 Computation of Triangulation.

.41 Spherical Excess.
.42 Legendre's Theorem.
.43 Chord Process.
.44 By Spherical Trigonometry.
.45 By Spheroidal Trigonometry. See also application of Least Squares, 522.6.

.46 L. M. Z. Formulæ and Applications.

.47 Direct Deduction by Bessel.
.48 Deduction by Puissant.
.49 Tables for Computation.

526.5 **Theory of Least Squares in Adjustment of Figures, etc.**

- ·51 Method of Independent Angles.
- 52 Adjustment of a Quadrilateral.
- ·53 Adjustment of Triangulation Net.
- ·54 Method of Directions.
- ·55 Adjustment for Closure of a Circuit.
- ·56 Method of Repetitions.
- ·57 Adjustments of Base Measures.
- ·58 Adjustments of Levelling.

.6 **Astronomic Determinations and their Connection with Geodetic Results.**

- .61 Latitude Determinations.
- .62 Longitude Determinations.
- .63 Azimuth Determinations.
- .64 Effect of Irregularities of Earth's Surface on Latitude, Longitude and Azimuth.
- .65 Effect of same on Angles of Triangle.

·7 **Gravity Experiments and Results.**

- ·71 Mathematical Theory.
- ·72 Pendulum Apparatus.
- ·73 Pendulum Operations.
- ·74 Corrections.
- ·75 Reduction of Results.

.8 **Map Projections.** See 515.5, Spherical projections.

- .81 Perspective Projections.
- .82 Orthomorphic Projections.
- .83 Development Projections.
- .84 Zenithal Projections.
- .85 Equivalent Projections.

·9 **Surveying.**

- ·91 Instruments and Methods. See 526.2.
- ·92 Measurement of Distances.
- ·93 Measurement of Angles.
- ·94 Measurement of Heights.
- ·95 Levelling. See 526.36–38.
- ·96 Plotting.
- ·97 Computation of Areas.
- ·98 Topographical Drawing.
- ·99 For Special Purposes. Military, Naval, Railroad, Mining, etc.

527 Navigation.

- .1 **Finding Latitude at Sea.** See also 525.41.
- .2 **Finding Longitude at Sea.** See also 525.46
- ·3 **Finding Time at Sea.** See also 529.74.
- ·4 **Sumner's Method.**
- ·5 **Great Circle Sailing.**
- .6
- ·7
- .8
- ·9

528 Ephemerides.

- .1 **American.**
- .2 **English.**
- ·3 **German.**
- ·4 **French.**
- ·5 **Italian.**
- .6 **Spanish.**
- ·7 **Slavic.**
- .8 **Scandinavian.**
- .9 **Construction of Ephemeris.**

529 Chronology.

- .1 **Sidereal and Solar Day:** Apparent and Mean Time, Equation of Time, Causes of Inequality.
- .2 **Solar Year, Months.**
- ·3 **Calendars.** Including early and Oriental.
- ·4 **Calendar of Julius Cæsar.**
- ·5 **Calendar of Gregory.**
- .6 **Ecclesiastical Calendar. Determination.**
  For feasts, etc., and calendars themselves, see 264.021, 264.031, etc.
- ·7 **Horology.**

- ·71 Finding Time by Transit.
- ·72 Finding by Equal Altitudes.
- ·73 Finding by Single Altitude.
- ·74 Finding by Sextant. See also 527.3.
- ·75 Time Systems, and Standards.
- ·76 Distribution of Time.
- ·77 Cosmic Time.
- ·78 Instruments for Measuring: Dials, Hour-glasses, Clocks, Watches, etc.
  See 522.51 for Sidereal Clocks and Chronometers.
  See 681 for Clock and Watch making.
- ·79

530 Physics.

Like Science in General, viz.:

General works only are arranged: 530.1, Philosopby; .2, Compends; .3, Dictionaries; .4 Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching, Experiments; .8, Physical Units, Measuring Instruments; .9, History.

531 Mechanics.

.1 **Pure Motion. Kinematics.**

.2 **Statics. Graphical statics.**

.21 Force and its Measure.
.22 Composition of Forces and Motions.
.23 Moments.
.24 Parallel Forces. Centre of Gravity.

.3 **Dynamics. Kinetics.**

.31 Rectilinear Motion.
.32 Vibration.
.33 Undulation.
.34 Rotation.
.35 Centrifugal and Centripetal Force.

.4 **Work. Friction.** See 621.89, Lubrication.

.41 Unit of Work.
.42 Diagram of Work.
.43 Laws of Friction. Modulus of Machines.
.44 Sliding Friction.
.45 Rolling Friction.

.5 **Gravity.**

.51 Law of Universal Gravitation.
.52 Laws of Falling Bodies
.53 Pendulum.
.54 Mass, Density, etc.
.55 Projectiles.
.56
.57
.58 Apparatus for Illustration.

.6 **Conservation of Energy.**

.7

.8 **Machines. Transmission of Force.**

.81 Lever and Balance.
.82 Whcel and Axle.
.83 Cord and Catenary.
.84 Pulley.
.85 Inclined Plane.
.86 Wedge.
.87 Screw.
.88

.9 **Tables. Problems. Questions.**

532 Liquids. Hydrostatics. Hydraulics.

.1 **Properties of Liquids. Pressure.**

.2 **Equilibrium of Liquids.**

.3 **Buoyant Effects. Floating Bodies.**

.4 **Specific Gravity. Hydrometer.**

.5 **Liquids in Motion.**

.51 Theoretical Flow.
.52 Orifices, Adjutages, Fluid Vein.
.53 Weirs, Overfalls.
.54 Pipes, Open Channels, Rivers.
.55 Bends, Valves, sudden enlargements and contractions.
.56 Efflux; variable pressure.
.57 Hydrometry. Velocity.
.58 Impulse and Resistance.
.59 Theory of Waves.

.6 **Capillary Attraction.**

.7 **Osmose. Absorption.**

.8 **Applications. Machines.** See 621.2, Water engines.

Except for libraries making Physics much more prominent than Useful Arts, all the "Applications" will be more useful under their proper heads in Useful Arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division.

.81 Hydraulic Press.
.82 Hydraulic Engine.
.83 Water Ram.
.84 Water Wheels.
.85 Water Blast.

.9 **Tables. Problems. Questions.**

533 Gases. Pneumatics.

.1 **Properties of Gases and Vapors.**

.2 **Laws of Compressibility.**

.3 **Atmosphere.**

.4 **Barometer.**

.5 **Air Pump**

.6 **Aeronautics.**

.7 **Kinetic Theory of Gases.**

.8 **Applications.** See 621.6, Blowing and Pumping engines.

Preferably go in Useful Arts, see 532.8, Note.

.82 Manometer. Pressure Gauges See 621.18, Steam generation.
.83 Condensing Pump.
.84 Force Pump.
.85 Suction Pump.
.86 Diving Bell.
.87 Forge Bellows.
.88 Pneumatic Dispatch.

.9 **Tables. Problems. Questions.**

534 Sound. Acoustics.

.1 **Theory. Undulations.**

.2 **Propagation of Sound. Velocity. Diffraction.**

.3 **Musical Sound. Tuning Forks.** See also 781.1, Theory of Music.

.4 **Analysis of Sounds. Resonators.**

.5 **Superposition of Vibrations.**

.6 **Graphical Representations.**

.7 **Physiological. Ear and Larynx.** See also 611.85, Anatomy; 612.85, Physiology; 612.78, Voice; 617.8, Surgery; 362.1 and .4, Hospitals; 152.2, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81

.82

.83 Signals in Navigation. See also 654.9, Communication.

.84 Applications to Architecture.

.85 Musical Instruments. See also 780, Music.

.86 Phonograph.

.9 **Tables. Problems. Questions.**

535 Light. Optics.

.1 **Theory.**

.2 **Propagation. Velocity. Measurement of Light.**

.3 **Reflection. Refraction. Absorption.** See also 522.92, Astronomy.

.4 **Dispersion. Diffraction. Interference.**

.5 **Polarization. Polariscope. Double Refraction.**

.6 **Color.**

.7 **Physiological. Eye.** See also 611.84, Anatomy; 612.84, Physiology; 617.7, Surgery; 362.1 and .4, Hospitals; 152.1, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81 Lenses.

.82 Microscopes and Magnifiers. See also 578, Microscopy.

.83 Telescopes. See also 522.2, Astronomy.

.84 Spectroscopes and Spectrum Analysis. See also 544.6, Chemistry; 522.67, Astronomy; 523.37, Moon; 523.57, Meteors, etc.

.85 Photography. See also 770.

.86 Other Applications of Lenses.

.87 Mirrors and Reflecting Instruments.

.88 Lighthouses. See also 627.9, Harbor Engineering; 656, Commerce.

.89

.9 **Tables. Problems. Questions.**

536 Heat.

.1 **Theory. Nature.**

.2 **Communication.**

.3 **Action of Bodies on Heat.**

.31 Reflection.

.32 Refraction.

.33 Radiation.

.34 Absorption.

.35 Diathermancy.

.4 **Effects. Action of Heat on Bodies.**

.41 Expansion.

.42 Liquefaction.

.43 Solidification.

.44 Vaporization and Condensation.

.45 Incandescence.

.46 Combustion. Flame.

.5 **Temperature.** See also 551.52, Meteorology; 613.18, Hygiene.

.51 Thermometry.

.52 Pyrometry.

.53 Electric Methods of Measuring.

.6 **Calorimetry.**

.7 **Thermodynamics. Mechanical Equivalent.**

.8 **Applications.** Preferably go in Useful Arts. See 532.8, Note.

.81 Steam Engines. See 621.1, Engineering.

.82 Gas Engines. See 621.43, Engineering.

.83 Heating. See 697, 621.19, 628.8, 644.

.84 Ventilating. See 697, 622.4, 628.8.

.9 **Tables. Problems. Questions.**

537 Electricity.

.1 **Theory. Nature.**

.2 **Statical.**

.21 Quantity, Potential.

.22 Conduction, Distribution

.23 Machines.

.24 Condensers.

.25 Electrometers.

.3

.4 **Atmospheric. Lightning Rods.**

.5 **Dynamical.**

.51 Theory of Coils. Constants.

.52 Induction Spark.

.53 Induction Spark in rarified gases

537.6 Electro Dynamics.
.7 Electrical Measurements.
.8 Applications. See 621.3. Preferably go in Useful Arts. See 532.8, Note.
.81 Telegraph. See 654.
.82 Telephone. Microphone.
.83 Dynamos. Electric Lighting.
.84 Transmission of Power. Storage.
.85 Electro-Metallurgy.
.86 Galvanometers. Batteries. Coils.
.87 Medicine. See also 615.84.
.88 Electric Signals.
.9 Tables. Problems. Questions.

538 Magnetism.

For "Animal Magnetism," Mesmerism, etc., see 134.

.1 Theory. Properties of Magnets. Lines of Force.
.2 Communication. Induction. Touch.
.3 Electro-Magnetism.
.4 Diamagnetism.
.5
.6
.7 Terrestrial Magnetism.
.8 Applied. Magnetic Machines.
.9 Tables. Problems. Questions.

539 Molecular Physics. Radioactivity

.1 Theory. Molecular Structure. Vortex Rings.
.2 Properties of Solids.
.3 Elasticity. Torsion.
.4 Strength of Materials.
.5 Permanent Displacement of Molecules.
.51 Malleability.
.52 Ductility.
.53 Hardness.
.54 Tempering.
.6 Intermolecular Forces.
.7
.8
.9 Tables. Problems. Questions.

540 Chemistry.

.1, Theories, Alchemy, Phlogiston; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching; .8, Collective Works; .9, History.

541 Theoretical Chemistry.

.1 Thermo Chemistry.
.2 Atoms. Molecules. Atomic Weights. Equivalence.
.3 Chemical Affinity. Combustion.
.4 Salts. Acids. Bases.
.5 Types.
.6 Compound Radicles.
.7 Allotropy. Isomerism.
.8 Solubility. Water of Crystallization.
.9 Classification. Nomenclature. Notation. Formulæ. Stoichiometry. Tables.

542 Practical and Experimental Chemistry.

.1 Laboratory.
.2 Apparatus and Manipulation.
.3 Weighing and Measuring. Specific Gravity.
.4 Heating. Baths. Distillation.
.5 Blowpiping. See 544.3, 549.1.
.6 Solution. Precipitation.
.7 Gas Manipulation. Eudiometer. See 545.7.
.8 Electric and Galvanic Manipulation. See 537.85.
.9 Other Operations.

543 Analysis.

Divided by material analyzed. See also 614.3, Adulterations.

.1 Food and Drink. See also 613.2, Hygiene; 612.39, Nutrition.
.2 Milk.
.3 Water. See also 613.3, Beverages.
.4 Drugs and Medicines.
.5 Poisons.
.6 Rock Analysis.
.7 Special Inorganic Substances. See also 574.7[illegible], Analysis of soils.
.8 Special Vegetable Substances.
.9 Special Animal Substances.

544 Qualitative Analysis.

.1 **Wet Method.**
.2 **Dry Method.** See 669.9, Assaying.
.3 **Blowpiping.** See 542.5, 549.1, Mineralogy.
.4
.5 **Dialysis.**
.6 **Spectrum Analysis.** See 535.84.
.7 **Polarization.** See 535.5.
.8
.9

545 Quantitative Analysis.

.1 **Gravimetric.**
.2 **Wet Method.**
.3 **Electrolysis.** See 537.85.
.4 **Dry Method.**
For Assaying see 669.9.
.5 **Volumetric.**
.6 **Solutions.**
.7 **Gases. Eudiometry.** See [illegible]
.8 **Colorimetric.**
.9 Synthesis.

546 Inorganic Chemistry.

.1 **Non-Metallic Elements.**

.11 Hydrogen.
.12 **Halogen Group.**
.13 Chlorine.
.14 Bromine.
.15 Iodine.
.16 Fluorine.
.17 **Nitrogen Group.** Nitrogen.
.18 Phosphorus.
.19 Arsenic.
.2 **Oxygen Group.**
.21 Oxygen.
.22 Sulphur.
.23 Selenium.
.24 Tellurium.
.25 **Carbon Group.**
.26 Carbon.
.27 Boron.
.28 Silicon.
.29

546.3 **Metals.**

.31 **Alkali Group.**
.32 Potassium.
.33 Sodium.
.34 Lithium.
.35 Rubidium.
.36 Caesium.
.37
.38
.39
.4 **Alkaline Earths.**
.41 Calcium.
.42 Strontium.
.43 Barium.
.44 **Magnesium Group.**
.45 Beryllium.
.46 Magnesium.
.47 Zinc.
.48 Cadmium.
.49
.5 **Lead Group.**
.51 Lead.
.52 Thallium.
.55 **Silver Group**
.56 Copper.
.57 Silver.
.58 Mercury.
.59
.6 **Cerium Group.**
.61 Yttrium.
.62 Cerium.
.63 Lanthanum.
.64 Didymium.
.65 Erbium.
.66 Aluminium.
.67 Indium.
.68 Gallium.
.69 Scandium.
.7 **Iron Group.**
.71 Manganese.
.72 Iron.
.73 Cobalt.
.74 Nickel.
.75 **Chromium Group.**
.76 Chromium.
.77 Molybdenum.
.78 Tungsten.
.79 Uranium.

546.8 **Tin Group.**
.81 Tin.
.82 Titanium.
.83 Zirconium.
.84 Thorium.
.85 **Vanadium Group.** Vanadium.
.86 Antimony.
.87 Bismuth.
.88 Tantalum.
.89 Niobium.
.9 **Platinum Group.**
.91 Gold.
.92 Platinum.
.93 Iridium.
.94 Osmium.
.95 **Ruthenium Group.**
.96 Ruthenium.
.97 Rhodium.
.98 Palladium.
.99

547 Organic Chemistry.

.1 **Cyanogen and its Compounds.**
.2 **Hydrocarbons. Fatty Series.**
.21 Paraffins.
.22 Olefines.
.23 Acetylenes.
.24 Valylene. Dipropargyl, etc.
.25 **Aromatic Series.**
.26 Benzenes.
.27 Diphenyl Group.
.28 Naphthalene. Anthracene. Phenanthrene.
.29 Higher Series.
The seven heads 547.3 to 547.9 are sub-divided like 547.2.
.3 **Alcohols. Phenols.**
.4 **Ethers. Simple. Compound. Haloid.**
.5 **Aldehydes.**
.6 **Ketones. Quinones.**
.7 **Acids. Acid Halides. Acid Anhydrides. Sulpho-acids.**
.8 **Nitro-derivatives. Amines. Compound Ammoniums. Amids. Amic Acids. Azo-bodies. Azoxy-bodies. Hydrazo-bodies. Diazo-bodies.**
.9 **Compounds with Metals.**

548 Crystallography.

.1 **Systems of Crystallization.**
.2 **Twin Crystals. Crystalline Aggregations.**
.3 **Cleavage. Isomorphism. Polymorphism.**
.4 **Irregularities. Internal Imperfections.**
.5 **Formation and Growth of Crystals.**
.6 **Pseudomorphs.**
.7 **Mathematical. Measurement of Angles.**
.8 **Physical.**
.9 **Optical.**

549 Mineralogy.

.01, Philosophy, Classification; .02, Compends; .03, Dictionaries; .04, Essays, Papers, etc.; .05, Periodicals; .06, Societies; .07, Study and Teaching, Museums; .08, Collective Works; .09, History.

.1 **Determinative. Blowpiping.** See also 542.5; 544.3.
.2 **Native Elements.**
.3 **Sulphides, Tellurides, Selenides, Arsenides, Antimonides, Bismuthides.**
.4 **Compounds of Chlorine, Bromine, Iodine, and Fluorine.**
.5 **Oxygen Compounds. Oxids.**
.6 **Silicates.**
.61 Anhydrous.
.65 Hydrous.
.7 **Other Ternary Oxygen Compounds.**
.71 Tantalates. Columbates.
.72 Phosphates. Arsenates. Vanadates. Antimonates. Nitrates.
.73 Borates.
.74 Tungstates. Molybdates. Chromates.
.75 Anhydrous Sulphates.
.76 Hydrous Sulphates.
.77 Tellurates.
.78 Carbonates.
.79 Oxalates.
.8 **Hydrocarbons.**
.9 **Geographical Distribution.**

550 Geology.

550.1, Philosophy, Theories, Geological Time; .2, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

551 Physical and Dynamical Geology.

Including Physical Geography. For Cosmical Geography, see 523.

.1 Structure of Earth as a Whole.

.11 Interior of Earth.
.12 Internal Heat.
.13 Earth's Crust.
.14 Conductivity of Rocks.

.2 Seismology.

.21 Volcanoes.
.22 Earthquakes.
.23 Hot Springs, Geysers.
.24 Oscillations of the Earth's Crust.

.3 Erosion and Deposition.

.31 Glaciers and Glacial Phenomena.
.32 Moraines.
.33 Transported Materials, Till.
.34 Icebergs.
.35 Aqueous Erosion.
.36 Coast Changes.
.37 Aerial Erosion.

.4 Surface Features of the Earth.

.41 Continents.
.42 Islands.
.43 Mountains. Valleys. Orology.
.44 Caves.
.45 Plains.
.46 Oceans.
.47 Ocean Currents.
.48 Rivers. Lakes.
.49 Springs. Wells. Ground water.

Division of Oceans for use under .46 and .47.

1, Atlantic. North Sea. Baltic.
2, Mediterranean. Black Sea.
3, Gulf of Mexico. Caribbean.
4, Southern Atlantic.
5, Pacific.
6, Eastern Pacific or American Coast.
7, Indian. Bay of Bengal. Red Sea.
8, Arctic.
9, Antarctic.

.5 Meteorology.

.51 Atmospheric Currents. Winds.
.52 Thermometry, Heat. See also 536.5, Temperature; 613.18, Hygiene.
.53 Hypsometry. See 526.36-8 for Methods.
.54 Barometry, Pressure.
.55 Storms.
.56 Climate.
.57 Moisture. Rainfall. Flow of Streams. Floods.
.58 Prairies, Forests, and Deserts.

.6 Metamorphism.

.7 Stratigraphical Geology.

.71 Archæan.
.72 Cambrian.
.73 Silurian. .731, Lower Silurian; .732, Upper Silurian.
.74 Devonian. Old red sandstone.
.75 Carboniferous.
.76 Triassic and Jurassic. Lias. Oolite.
.77 Cretaceous.
.78 Tertiary. .781, Eocene. .782, Miocene. .783, Pliocene.
.79 Quaternary. Postpliocene. Glacial. .791, Recent.

551.8 Structural Geology.

.81 Stratification.
.82 Curvature and Contortion.
.83 Ripple Marks and Sun Cracks.
.84 Joints. Cleavage. Polarity in Rocks.
.85 Dip. Outcrop. Strike.
.86 Anticlinal. Synclinal.
.87 Faults and Folds. Dislocations.
.88 Veins. Dykes. Necks. Bosses.
.89

.9 Agents of Geological Work.

.91 Frost.
.92 Water.
.93 Atmosphere.
.94 Chemical Changes. Heat.
.95 Animals.
.96 Coral Reefs.
.97 Plants.
.98 Segregation and Concretion.
.99 Other Agents.

552 Lithology, Petrography, Petrology.

.1 Igneous Rocks.

.2 Volcanic Rocks.

.21 Lavas. Scoria.
.22 Volcanic Ashes. Volcanic Tufa. Tuff.
.23 Obsidian. Pumice. Pitchstone.
.24 Trachyte.
.25 Rhyolite.
.26 Andesite. Dacite. Phonolite.
.27 Felsites.
.28 Basalt.
.29 Other Volcanic Rocks

.3 Plutonic Rocks.

.31 Porphyry. Porphyrite.
.32 Syenite.
.33 Granite.
.34 Diabase and Gabbro.
.35 Dolerite.
.36 Diorite.
.37 Norite.
.38 Peridotite.
.39 Other Plutonic Rocks.

.4 Metamorphic Rocks.

.41 Granites and Syenites.
.42 Gneiss.
.43 Schists.
.44 Slates. Argillite. Phyllite.
.45 Quartzite. Novaculite. Itacolumite.
.46 Marble. Crystalline limestone.
.47 Serpentine.
.48 Chrysolitic Rocks.
.49 Other Metamorphic Rocks.

552.5 **Sedimentary Rocks.**

.51 Sandstone. Conglomerate. Sand. Gravel.
.52 Shale. Clay Silt.
.53 Gypsum. Salt.
.54 Limestone. Marl. Ooze.
.55 Dolomite.
.56 Oölite.
.57 Infusorial or Diatomaceous Earth.
.58 Glauconite. Greensand.
.59 Other Sedimentary Rocks.

.6 **Meteorites.**

.7 **Decay of Rocks.**

.8 **Microscopical Petrography.**

.81 Determination of Rock Minerals.
.82 Rock Structure.

553 Economic Geology. See also 622.1, Mining engineering.

.1 **Ore Deposits.**

.11 Formation and Structure.
.12 Classification.
.13 Superficial. Placers.
.14 Stratified. Beds, etc.
.15 Unstratified.
.16 Disseminated through eruptive rocks.
.17 Stockwerks. Fahlbands. Contacts.
.18 Chambers and Pockets. Impregnations.
.19 Mineral Veins.

.2 **Carbon Series.**

.21 Peat.
.22 Lignite and Jet.
.23 Cannel Coal. Bituminous Shale.
.24 Bituminous and Semi-Bituminous Coals.
.25 Anthracite and Graphitic Anthracite.
.26 Graphite. Plumbago.
.27 Asphalt and Asphaltic Coals. Ozocerite.
.28 Petroleum. Natural Gas.
.29 Fossil Gums and Resins.

[While the history of all the other products goes here, the history of the metals is more useful in 669, Metallurgy.]

.3 **Ores of Iron.**

.4 **Ores of Metals other than Iron.**

.41 Ores of Gold.
.42 Ores of Silver.
.43 Ores of Copper.
.44 Ores of Lead.
.45 Ores of Zinc and Tin. Mercury.
.46 Ores of Manganese and Chromium
.47 Ores of Antimony and Arsenic.
.48 Ores of Nickel and Cobalt.
.49 Other Metallic Ores.

553.5 **Building Stones.**

.51 Marbles and Limestones.
.52 Granites and Syenites.
.53 Sandstones.
.54 Slates.
.55 Serpentines. Soapstones.
.56 Porphyries.
.57 Trap.
.58 Tufa. Peperino.
.59 Other Building Stones.

.6 **Earthy Economic Minerals.**

.61 Fire Clays. Brick Clays. Potter's Clays.
.62 Sands.
.63 Rock Salt. Gypsum.
.64 Phosphates. Apatite. Guano. See also 631.
.65 Emery.
.66 Heavy Spar. Sulphur.
.67 Asbestus, etc.
.68 Limes and Mineral Cements.
.69 Other Earthy Economic Minerals.

.7 **Mineral Waters.**

.71 Alkaline.
.72 Saline.
.73 Chalybeate, Iron-bearing.
.74 Sulphuric.
.75 Calcic.
See also 551.23.

Divide general works geographically like 930–999; e. g. Mineral waters of Germany, 553.7043

.8 **Gems. Ornamental Stones.**

.9 **Other Economic Minerals.**

554 Geology of Europe. 554–559 subdivided by countries like 940–999.
555 Geology of Asia.
556 Geology of Africa.
557 Geology of North America.
558 Geology of South America.
559 Geology of Oceanica. Polar Regions.

560 Paleontology. Use form divisions as in 550 and divide .9 geographically like 930–999; e. g. Paleontology of Germany is 560.943.

561 Plants. 561 is subdivided like Botany, 580.
562 Invertebrates. 562–569 is subdivided like Zoology, 592 599.
563 Protozoa. Radiates.
564 Mollusks.
565 Articulates.
566 Vertebrates.
567 Fishes. Batrachia.
568 Reptiles. Birds.
569 Mammals.

570 Biology.

570.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

571 Prehistoric Archæology.

For Customs, see 390. For archæology of special countries, see 913.

.1 Paleolithic, or Early Stone Age.

.11 Drift Remains.
.12 Cave Men.
.13 Remains of Animals. Shells.
.14 Chipped Stones.
.15 Flint Flakes. Arrow Heads. Knives, etc.
.16 Other Stone Remains.
.19 Other Remains.

.2 Neolithic, or Late Stone Age.

.21 Stone Quarries.
.22
.23 Remains of Animals.
.24 Polished Stones.
.25 Sharpened Stones. Celts. Tools. Weapons.
.26 Perforated Stones. Spindles. Net Sinkers. Pipes.
.27 Hollowed Stones. Mortars. Cups. Food Vessels.
.28 Other Stone Remains.
.29 Other Remains.

.3 Bronze Age.

.31 Ancient Copper and Tin Mining.
.34 Bronze Remains.
.35 Tools. Weapons, etc.
.37 Cups. Vessels.
.39 Other Remains.

.4 Iron Age.

.5 Other Remains.

.51 Implements of Wood.
.52 Implements of Bone.
.53 Basket Work.
.54 Textile Fabrics.
.55 Pottery.
.56 Glass.
.6

.7 Rudiments of Art. Ornaments.

.71 Drawings.
.72 Paint.
.73 Sculptures.
.74 Beads.

.8 Dwellings.

.81 Natural Caves.
.82 Earth Houses. Pit Dwellings. Weems.
.83 Lake Dwellings. Crannoges.
.84 Cliff Dwellings.
.85 Pueblos.
.86 Tents as Dwellings.

571.9 Mounds and Monuments.

.91 Mounds and Mound Builders.
.92 Grave Mounds.
.93 Kitchen Middens. Shell Banks
.94 Monoliths. Cromlechs.
.95 Circles. Labyrinths.
.96 Cairns.
.97
.98
.99

572 Ethnology. Anthropology.

See also 136.4, Mental race characteristics.

.1 Unity of the Human Race.

.2 Diversity of Races.

.3 Migrations of Men.

.4 Original Home of Man. Eden, Atlantis, etc.

.5
.6
.7

.8 Races divided by Language like 400.

.9 Races divided by Countries like 930-999.

Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 Natural History of Man.

.1 Man's Place in Nature.

.2 Origin of Man.

.3 Antiquity of Man.

.4 Influence of Climate and Surroundings.

.5 Color in Man.

.6 Anthropometry.

.7 Craniology.

.8 Dwarfs and Giants.

.9 Monstrosities. See also 613.91, Congenital defects; 617.3, Deformities.

574 Homologies.

575 Evolution.

See also 213, Creation; 215, Religion and Science; 239.8, Apologetics.

.1 Heredity. See also 136.3, Mental; 233.3, Moral; 129.2, Origin of soul.

.2 Variation. See also 591.15, Physiological zoölogy.

.3 Environment. See also 136.2, Mental; 573.4.

.4 Natural Selection.

.5 Sexual Selection.

.6 Development. Survival of the Fittest.

.7 Degeneration.

.8 Origin of Species.

.9 Origin of Sexes. See also 591.36, Embryology.

576 Origin and Beginnings of Life.

.1 Spontaneous Generation.
.2 Protoplasm. Bioplasm.
.3 Cells.
.4 Beginnings of Motion and Sensation.
.5
.6

577 Properties of Living Matter.

.1 Chemical. Difference between Organic and Inorganic.
.2 Life. Difference between Dead and Living Matter.
.3 Difference between Vital and Physical Phenomena.
.4 Conditions of Life. Moisture. Temperature.
.5 Difference between Plants and Animals.
.6 Vital Force.
.7 Death.
.8 Sex in Nature.
.9

578 Microscopy. See also 535.82, Optics.

.1 Varieties of Microscopes.
.2 Optical Parts.
.3 Mechanical Parts.
.4 Accessory Apparatus and Management of Microscope.
.5 Illuminating Apparatus.
.6 Preparation and Mounting of Objects.
.7 Special Preparation and Study of Inorganic Material.
.8 " Botanical Material. See 581.8, Histology.
.9 " Zoological Material. 591.8, "

579 Collectors' Manuals.

.1 Preparing Skeletons.
.2 Preservatives and Hardening Fluids.
.3 Injections.
.4 Taxidermy.
.5 Mounting Specimens.
.6 Collecting.
.11, Alluring; Bait, Light, etc. .12, Hunting; Nets, Collecting bottle, etc. .13, Killing. .14, Exchange. Purchase. .15, Rearing. .16, Transporting.
.7 Arrangement of Specimens in Museums.
.71, Cabinets. .72, Labels.
.8 Preservation of Specimens.
.81, Museum Pests. .82, Pestifuges. .83, Prevention of moisture. .84, Retention of colors.
.9

580 Botany.

580.1, Philosophy, Classification, Nomenclature; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching, Herbariums, Botanic Gardens; .8, Collective Works; .9, History.

581 Physiological and Structural Botany.

Subdivided where wished like 591.

.1 Physiology.
.2 Pathology. Teratology.
.21 Diseases.
.22 Teratology.
.23 Parasites.
.3 Embryology. Germination.
.4 Morphology. Comparative Anatomy.
.5 Habits.
.6 Economic.
.7 Organography. Descriptive Anatomy.
.8 Histology. See 578.8.

.9 Geographical.

.91 Distribution of Plants.

.93–.99 is subdivided like 930–999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 586 with a reference from 581.97, but No. Am. Phanerogamia goes with 581.97 because it so completely covers the subject.

General Works covering both Phanerogamia and Cryptogamia are put under 580, as books on Vertebrates and Invertebrates are put under 590.

In applying these numbers to Fossil Plants, 561, note that one more figure must be used than in Fossil Animals. The Zoölogy numbers are already given in the third place in Paleontology, e. g. 592 Invertebrates, 562 Fossil Invertebrates, and so on to 599 Mammals, and 569 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogams are 561.2 not 562, which is assigned to Invertebrate Zoölogy as more important. Lichens are 561.91, etc. In the same way the Fossil Flora of North America is 561.197, i. e., the first two Botany figures, 58, are changed to 561 to give the corresponding Fossil Botany number, while in Zoölogy the only change is from 59 to 56 for first two figures, except in 591, which cannot change to 561, which is assigned to Botany. The Fossil Fauna of North America must therefore go among general works under 560.97.

582 Phanerogamia. See also Trees 715.

The sub-sections below are taken from the recognized authority, Bentham and Hooker's Genera Plantarum.

583 Dicotyledonæ.

.1 Polypetalæ.
.11 Ranales.
.111 Ranunculaceæ.
.112 Dilleniaceæ.
.113 Calycanthaceæ.
.114 Magnoliaceæ.
.115 Anonaceæ.
.116 Menispermaceæ.
.117 Berberideæ.
.118 Nymphæaceæ.

583.12 **Parietales.**
.121 Sarraceniaceæ.
.122 Papaveraceæ.
.123 Cruciferæ.
.131 Capparideæ.
.133 Resedaceæ.
.134 Cistineæ.
.135 Violarieæ.
.137 Canellaceæ.
.138 Bixineæ.
.14 **Polygalineæ.**
.141 Pittosporeæ.
.142 Tremandreæ.
.143 Polygaleæ.
.145 Vochysiaceæ.
.15 **Caryophyllineæ.**
.151 Frankeniaceæ.
.152 Caryophylleæ.
.153 Sileneæ.
.154 Alsineæ.
.155 Polycarpeæ.
.156 Portulaceæ.
.158 Tamariscineæ.
.16 **Guttiferales.**
.161 Elatineæ.
.162 Hypericineæ.
.163 Guttiferæ.
.166 Ternstrœmiaceæ.
.167 Dipterocarpeæ.
.168 Chlænaceæ.
.17 **Malvales.** Malvaceæ.
.18 Sterculiaceæ.
.19 Tiliaceæ.
.21 **Geraniales.**
.211 Lineæ.
.213 Humiriaceæ.
.214 Malpighiaceæ.
.221 Zygophylleæ.
.223 Geraniaceæ.
.23 Rutaceæ.
.241 Simarubeæ.
.245 Ochnaceæ.
.247 Burseraceæ.
.251 Meliaceæ.
.255 Chailletiaceæ.

583.26 **Olacales.**
.261 Olacineæ.
.269 Ilicineæ.
.27 **Celastrales.**
.271 Celastrineæ.
.274 Stackhousieæ.
.275 Rhamneæ.
.279 Ampelideæ.
.28 **Sapindales.**
.281 Sapindaceæ.
.291 Sabiaceæ.
.292 Anacardiaceæ.
.297 **Anomola.**
.298 Coriarieæ.
.299 Moringeæ.
.3 **Rosales.**
.31 Connaraceæ.
.32 Leguminosæ.
.37 Rosaceæ.
.38 Saxifrageæ.
.39 Crassulaceæ.
.393 Droseraceæ.
.394 Hamamelideæ.
.396 Bruniaceæ.
.398 Halorageæ.
.4 **Myrtales.**
.411 Rhizophoreæ.
.414 Combretaceæ.
.42 Myrtaceæ.
.43 Melastomaceæ.
.441 Lythrarieæ.
.445 Onagrarieæ.
.45 **Passiflorales.**
.451 Samydaceæ.
.453 Loaseæ.
.455 Turneraceæ.
.456 Passifloreæ.
.461 Cucurbitaceæ.
.468 Begoniaceæ.
.469 Datisceæ.
.47 **Ficoidales.**
.471 Cacteæ.
.475 Ficoideæ.
.48 **Umbellales.**
.481 Umbelliferæ.
.491 Araliaceæ.
.497 Cornaceæ.

583.5 **Gamopetalæ.**

.51 **Rubiales.** Caprifoliaceæ.
.52 Rubiaceæ.
.53 **Asterales.**
.531 Valerianeæ.
.541 Dipsaceæ.
.546 Calycereæ.
.55 Compositæ.
.57 **Campanales.** Stylidieæ.
.58 Goodenovieæ.
.59 Campanulaceæ.
.6 **Ericales.**
.61 Vacciniaceæ.
.62 Ericaceæ.
.63 Monotropeæ.
.64 Epacrideæ.
.65 Diapensiaceæ.
.66 Lennoaceæ.
.67 **Primulales.**
.671 Plumbagineæ.
.672 Primulaceæ.
.677 Myrsineæ.
.68 **Ebenales.**
.681 Sapotaceæ.
.685 Ebenaceæ.
.686 Styraceæ
.7 **Gentianales**
.71 Oleaceæ.
.716 Salvadoraceæ.
.72 Apocynaceæ.
.73 Asclepiadeæ.
.74 Loganiaceæ.
.75 Gentianeæ.
.76 **Polemoniales.**
.761 Polemoniaceæ.
.764 Hydrophyllaceæ.
.77 Boragineæ.
.78 Convolvulaceæ.
.79 Solanaccæ.
.8 **Personales.**
.81 Scrophularineæ.
.821 Orobanchaceæ.
.825 Lentibularieæ.
.829 Columelliaceæ.
.83 Gesneraceæ.
.84 Bignoniaceæ.
.85 Pedalineæ.
.86 Acanthaceæ.
.87 **Lamiales.**
.871 Myoporineæ.
.876 Selagineæ.
.88 Verbenaceæ.
.891 Labiatæ.
.899 **Ordo anomalus.** Plantagineæ.

583.9 **Apetalæ.**

.91 **Curvembryeæ.**
.911 Nyctagineæ.
.912 Illecebraccæ.
.913 Amarantaceæ.
.914 Chenopodiaceæ.
.915 Phytolaccaceæ.
.916 Batidcæ.
.917 Polygonaccæ.
.92 **Multiovulatæ Aquaticæ.**
.921 Podostemaceæ.
.922 **Multiovulatæ Terrestres.** Nepenthaceæ
.923 Cytinaceæ.
.924 Aristolochiaceæ.
.925 **Micrembryeæ.** Piperaceæ.
.926 Chloranthaceæ.
.927 Myristiceæ.
.928 Monimiaceæ.
.93 **Daphnales.**
.931 Laurineæ.
.932 Proteaceæ.
.933 Thymelæaceæ.
.934 Penæaceæ.
.935 Elæagnaceæ.
.94 **Achlamydosporeæ.**
.941 Loranthaceæ.
.943 Santalaceæ.
.947 Balanophoreæ.
.95 **Unisexuales.**
.951 Euphorbiaceæ.
.961 Balanopseæ.
.962 Urticaceæ.
.971 Platanaceæ.
.972 Leitnerieæ.
.973 Juglandeæ.
.974 Myricaceæ.
.975 Casuarineæ.
.976 Cupuliferæ.
.98 **Anomali.**
.981 Salicineæ.
.983 Lacistemaceæ.
.984 Empetraceæ.
.987 Ceratophylleæ.

584 Monocotyledonæ.

.1 **Microspermeæ.**
.11 Hydrocharidcæ.
.13 Burmanniaceæ.
.15 Orchideæ.
.2 **Epigyneæ.**
.21 Scitamineæ.
.22 Bromeliaceæ.
.23 Hæmodoraceæ.
.24 Irideæ.
.25 Amaryllideæ.
.26 Taccaccæ.
.27 Dioscorcaceæ.
.3 **Coronarieæ.**
.31 Roxburghiaceæ.
.32 Liliaceæ.
.34 Pontederiaceæ.
.35 Philydraceæ.
.36 Xyrideæ.
.37 Mayaceæ.
.38 Commelinaceæ.
.39 Rapateaceæ.
.4 **Calycineæ.**
.41 Flagellarieæ.
.45 Juncaceæ.
.5 Palmæ.
.6 **Nudifloreæ.**
.61 Pandaneæ.
.62 Cyclanthaceæ
.63 Typhaceæ.
.64 Aroideæ.
.68 Lemnaceæ.
.7 **Apocarpeæ.**
.71 Triurideæ.
.72 Alismaceæ.
.74 Naiadaceæ.
.8 **Glumaceæ.**
.81 Eriocauleæ.
.82 Centrolepideæ.
.83 Restiaceæ.
.84 Cyperaccæ.
.9 Gramineæ.

585 Gymnospermæ.

.1 **Gnetaceæ.**
.2 **Coniferæ.**
.9 **Cycadaceæ.**

586 Cryptogamia.

587 Pteridophyta.

.1 **Isoeteæ.**
.2 **Equisetæ.**
.3 **Filicinæ.**
.9 **Lycopodinæ.**

588 Bryophyta.

.1 **Sphagna.**
.2 **Musci.**
.3 **Hepaticæ.**
.4 **Characeæ.**

589 Thallophyta.

.1 **Lichenes.**
.11 **Basidiolichenes.**
.15 **Ascolichenes.**
.16 Angiocarpæ.
.17 Gymnocarpæ.
.18 Gelatinosæ.
.19 Byssaceæ.
.2 **Fungi.**
.21 **Carposporeæ.**
.22 Basidiomycetes.
.221 Gasteromycetes.
.222 Hymenomycetes.
.224 Tremellinæ.
.225 Uredineæ.
.227 Ustilagineæ.
.229 Entomophthoreæ.
.23 Ascomycetes.
.231 Tuberaceæ.
.233 Discomycetes.
.235 Pyrenomycetes.
.238 Gymnoasceæ.
.24 **Oosporeæ.**
.25 Peronosporeæ.
.26 Saprolegnieæ.
.27 **Zygosporeæ.**
.28 Zygomycetes.
.29 Myxomycetes.
.3 **Algæ.**
.4 **Carposporeæ.**
.41 Florideæ.
.47 Coleochaeteæ.
.5 **Oosporeæ.**
.6 **Zygosporeæ.**
.61 Conjugateæ.
.67 Zoosporeæ.
.7 **Protophyta.**
.8 **Chlorophyllaceæ.**
.9 **Achlorophyllaceæ.**
.91 Saccharomycetes. Yeast.
.95 Schizomycetes. Bacteria. Microbes
. See also 614.41, Origin of infectious diseases; 616.01, Germ theory of disease.

590 Zoology.

590.1, Philosophy, Classification; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Zoological Gardens, Aquaria, Museums; .8, Collective Works; .9, History.

591 Physiological Zoology.

.1 Physiology.

.11 Circulation.

.12 Respiration.

1, Nature; 2, Dermal; 3, Aquivascular; 5, Branchial; 6, Tracheal; 7, Pulmonary; 9, Exhalation of Aqueous Vapor.

.13 Nutrition.

1, Acquisition of Food; 2, Digestion of Food; 3, Assimilation of Food; 4, Growth; 5, Development; 6, Repair of Waste; 7, Production of Organic Material; 8, Conditions of Nutritive Activity; 9, Longevity, Vitality.

.14 Secretion and Excretion.

1, Mucous and Sebaceous; 2, Sericeous; 3, Digestive, salivary, gastric, pancreatic; 4, Odoriferous, sweet, etc.; 5, Poisonous, gall-formation, caprification; 591.65 6, Mammary, spermatic; 7, Lachrymal; 8, Biliary; 9, Urinary and Fecal.

.15 Variation. See also 575.2, Evolution.

1, Polymorphic; 2, Geographic; 3, Heterophagic; 4, Polygoneutic; 5, Mimetic; 6, Sexual; 7, Colorational; 8, Hybrids; 9, Monstrosities.

.16 Generation.

1, Abiogenesis; 2, Parthenogenesis, neuters; 3, Metagenesis, pædogenesis, nurses; 5, Fission and Gemmation; 6 Fecundation; 7, Hermaphrodites; 8, Vivipara; 9, Superfœtation.

.17 Histogenesis.

1, Development of Sperm-cells; 2, Development of Germ-cells, micropyle; 9, Reparation of Wounds.

.18 Nervous Functions and Sensation.

.19 Physiological chemistry.

.2 Pathology.

.3 Embryology.

.33, Development of Embryo; .34, Metamorphosis, larva, pupa, moulting; .35, Hypermetamorphosis; .36, Production of Sexes. See also 575.9, Origin of sexes.

.4 Morphology. Comparative Anatomy.

.41 Circulatory Organs.

.42 Respiratory Organs.

.43 Nutritory Organs.

.44 Secretory and Excretory Organs.

.45

.46 Generatory Organs.

.47 Motory Organs.

.48 Nervous System.

.49 Integument. Dermoskeleton. Skeleton.

.5 Habits and Behavior.

.51 Instinct. Reason.

.52 Abode. Migration.

.53 Food.

.54 Seasons. Hibernation.

.55 Sociability.

.56 Philoprogenitiveness. Breeding

.57 Means of Protection. Fascination.

.58

.59 Other Habits.

591.6 Economic.

.61 Usefulness.

.62 In Nature.

.63 As Food and Medicine for Man.

.64 In Chemistry and Manufactures.

.65 Noxiousness.

.66 Offensive Animals.

.67 Animals causing Diseases.

.68 Injuring Vegetable and Animal Products and Inorganic Substances.

.69 Injuring Living Plants and Animals. Parasites.

.7 Organography. Descriptive Anatomy.

Subdivided like 591.4, Morphology.

.8 Histology. See also 578.9, Microscopical zoölogy.

.9 Geographical Distribution of Animals.

Subdivided like 930–999, using .92 for ocean.

592 Invertebrates.

593 Protozoans. Radiates.

Nzi P

.1 Protozoans.

.11 Rhizopoda.

.12 Foraminifera.

.13 Heliozoa.

.14 Radiolaria. Polycystina.

.15 Infusoria.

.16 Flagellata.

.17 Ciliata.

.18

.19 Gregarinidæ.

.2 Radiates.

A

.3 Cœlenterata. Acalepha (old use of term, now limited to 593.73).

.4 Sponges. Porifera. Spongia.

.5 Cnidaria.

.6 Actinozoa. Polyps. Corals and Sea Anemones.

.61 Rugosa. Tetracorolla.

.62 Alcyonaria. Octocorolla.

.63 Zoantharia. Hexacorolla.

.64 Antipatharia.

.65 Actinaria.

.66 Madreporaria.

.7 Hydrozoa.

.71 Hydromedusæ.

.72 Siphonophora.

.73 Acalepha.

.74 Calycozoa.

.76 Marsupialida.

.77 Discophora. Jelly Fish.

.8 Ctenophora. Jelly Fish.

593·9 Echinodermata.

·91 Crinoidea. Sea Lilies. Comatulides (Crerar)
·92 Asteroidea. Star Fish.
·93 Stelleridea.
·94 Ophiuridea.
·95 Echinoidea. Sea Urchins.
·96 Holothuroidea. Sea Cucumbers.
·97 Pedata.
·98 Apoda.
·99 Enteropneusta.

594 Mollusks.

.1 Lamellibranchiata. Bivalves.
.2 Scaphopoda.
·3 Gastropoda. Univalves. Snails. Slugs. See also 632, Pests.
·4 Pteropoda. Winged Shells.
·5 Cephalopoda. Squids and Cuttle Fish.
.6 Molluscoidea.
·7 Bryozoa. (Polyzoa.) Sea Mats.
.8 Brachiopoda. Lamp Shells.
Needs subd. (Carus) ·9 Tunicata. (Ascidia.) Sea Grapes.

See Mann

595 Articulates.

" Carus — .1 Worms. Vermes. See also 632, Pests.
(,·2 Arthropoda.
·3 Crustacea.
·31 Entomostraca. Cyclops, Shrimps, etc.
·32 Phyllopoda.
·33 Ostracoda.
·34 Copepoda.
·35 Cirripedia. Barnacles, etc.
·36 Malacostraca. Sandbugs, Crabs, Lobsters, etc.
·37 Arthrostraca.
·38 Thoracostraca.
·39 Gigantostraca. Trilobites.
Needs subd. (Carus) ·4 Arachnida. Spiders. Scorpions. Mites. See also 632, Pests.
" ·5 Onychophora.
.6 Myriopoda. Centipedes, etc. See also 632, Pests.
See file ·7 Insects. Insecta. Hexapoda. See also 632, Pests.
·71 Thysanura. Bristle-tails, spring-tails, etc.
·72 Orthoptera. Grasshoppers, etc.
·73 Pseudoneuroptera. Dragon-flies, white ants, etc.
·74 Neuroptera. Caddice flies, etc.
·75 Rhynchota. (Hemiptera.) Bugs, etc.
" ·76 Coleoptera. Beetles.
·77 Diptera. Flies, etc.
·78 Lepidoptera. Butterflies, Moths.
·79 Hymenoptera. Bees, Wasps, etc.

596 Vertebrates.

597 Fishes. Pisces.

.1 Pharyngobranchii. Lancelet.
.2 Marsipobranchii. Lampreys.
·3 Elasmobranchii. Sharks, Rays, etc.
·4 Ganoidei. Sturgeons, Garpikes, etc.
·5 Teleostei. True bony fishes.
.6 Batrachia. (Amphibia.)
·7 Ophiomorpha.
.8 Anura. Toads, Frogs.
·9 Urodela. Salamanders.

See Carus

598 Reptiles. Birds.

.1 Reptiles.
.11 Lacertilia. Lizards.
.12 Ophidia. Snakes.
.13 Chelonia. Turtles.
.14 Crocodilia. Crocodiles.
.15 Ichthyopterygia.
.16 Sauropterygia.
.17 Anomodontia.
.18 Pterosauria.
.19 Dinosauria.
See Carus .2 Birds. Aves. .21 Amer. birds (Berry) .22 Eng.
·3 Grallatores. (Waders.)
·4 Natatores. (Swimmers.)
·5 Cursores. (Runners.)
.6 Rasores. (Scratchers.)
·7 Scansores. (Climbers.)
.8 Insessores. (Perchers.)
·9 Raptores. (Birds of Prey.)

599 Mammals. Mammalia.

.1 Monotremata. Duck-billed Platypus.
.2 Marsupialia. Kangaroos, Opossums.
·3 Edentata. Rodentia. Insectivora. Sloths. Rodents. Moles.
.4 Cheiroptera. Bats.
·5 Cetacea. Sirenia. Whales, etc.
.6 Proboscidea. Hyracoidea. Elephants. Hyrax.
·7 Ungulata. Carnivora. Domestic Mammals. See also 636.
.8 Quadrumana. Apes.
·9 Bimana. Man. See also 573, Nat. hist. of man; 610, Medicine.

Useful Arts.

600 Useful Arts.

601 Philosophy. Theories, etc.

602 Compends. Outlines.

603 Dictionaries. Cyclopedias.

604 Essays. Lectures. Addresses.

605 Periodicals. Magazines. Reviews.

606 Societies. Fairs. Exhibitions.

Special exhibitions go with their topics. This is general only.

607 Education. Schools of Technology.

Divided like 940–99.

608 Patents. Inventions.

609 History of Useful Arts in General.

For its History, see each special department.

610 Medicine.

.1, Philosophy, Theories; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .71, Medical schools; .72, Medical education of women; .73, Training schools for nurses; .77, Medical museums; .8, Collections; .9, History of Medicine.

611 Anatomy. Histology.

May be subdivided by a o, like 610, if wished. Put Dissection in 611.07. For Malformations see 617.3, Orthopædic Surgery. See also 591.4, Comparative Anatomy; 591.8, Histology.

.1 Circulatory System.

.11 Pericardium.
.12 Heart.
.13 Arteries.
.14 Veins.
.15 Capillaries.

.2 Respiratory System.

.21 Nasal Passages.
.22 Larynx.
.23 Trachea. Bronchi.
.24 Lungs.
.25 Pleura.
.26 Diaphragm and other muscles of respiration.

.3 Digestive System.

.31 Mouth. Tongue. Teeth. Salivary Glands.
.32 Pharynx. Oesophagus.
.33 Stomach.
.34 Intestine.
.35 Rectum. Anus.
.36 Liver. Gall Bladder.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.

.4 Glandular and Lymphatic System.

Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.31, Salivary Glands; 611.69, Mammary Glands.

.41 Spleen.
.42 Lymphatics.
.43 Thymus.
.44 Thyroid.
.45 Suprarenal Bodies.
.46

.6 Genito-Urinary System. Breasts.

.61 Kidneys. Ducts. Ureters.
.62 Bladder. Urethra.
.63 Testes. Spermatic Cord. Scrotum.
.64 Penis.
.65 Ovaries. Fallopian Tubes.
.66 Uterus.
.67 Vagina. Vulva.
.68
.69 Mammary Glands.

611.7 **Motor and Integumentary System.**

.71 Bones. Skeleton.
.72 Articulations. Joints. Cartilages.
.73 Muscles.
.74 Tendons. Fasciæ.
.75 Bursæ. Sheaths of Tendons.
.76 Connective Tissue.
.77 Skin.
.78 Hair. Nails.

.8 **Nervous System. Sensory Apparatus.**

.81 Brain and its Meninges.
.82 Spinal Cord and its Meninges.
.83 Nerves.
.84 Sight.
.85 Hearing.
.86 Smell.
.87 Taste.
.88 Touch.
.89 Ganglia.

.9 **Regional Anatomy.**

.91 Head.
.92 Face.
.93 Neck.
.94 Chest.
.95 Abdomen.
.96 Pelvis.
.97 Upper Extremities.
.98 Lower Extremities.

612 Physiology.

May be subdivided by a 0, like 610, if wished. For Vital Phenomena in general, see 577 Properties of living matter. Use 612.01 for general works on Physiological Chemistry. See also 591.1, Physiology of Animals.

.1 **Blood and Circulation.**

.11 Blood and its Physical Properties. See also 612.23, Changes in Blood.

.1, Red Globules; .2, Leucocytes; .3, Arterial Blood; .4, Venous Blood; .5, Coagulation; .6, Quantity; .7, Color; .8, Other Properties; .9, Blood-making. Sanguification.

.12 Chemical Composition.
.13 Hydraulic Principles of Circulation.
.14 Blood Pressure.
.15 Rapidity of Flow.
.16 Pulse Wave.
.17
.18
.19 Functions of Special Organs.

.2 **Respiration.**

.21 Respiratory Movements.
.22 Gas Exchange.
.23 Changes in Blood. See also 612.11, Blood.
.24 Capacity of the Lungs.
.25 Exhalation of Vapor of Water.
.26 Change of excreted Organic Particles.
.27
.28
.29 Functions of Special Organs.

612.3 **Digestion. Absorption. Nutrition.**

.31 Mouth. Teeth. Salivary Glands.
.32 Stomach. Vomiting, see 616.33.
.33 Intestine.
.34 Pancreas. Pancreatic Fluid.
.35 Liver.
.36 Defecation.
.37
.38 Absorption.

.1, Imbibition; .2, Osmosis; .3, Diffusion; .4, Skin, see also 612.79 and 615.67; .5, Lungs, see also 612.29 and 615.64; .6, Alimentary Canal, see also 612.3; .7, Other Mucous Membranes, see also 615.66; .8, Parenchymatous Absorption.

.39 Nutrition.

.1, Hunger and Thirst; .2, Nutriments; .3, Stimulants; .4, Growth; .5, Repair; .6, Carbohydrates; .7, Fats; .8, Albuminoids. For Diet, see 613.2.

.4 **Secretion. Excretion.**

Divided like 611.4. Add 612.46, Kidneys, Bladder, Urine, etc.; 612.49, for Vicarious Secretion. Put secretions of special systems with those systems; e. g. of the Liver, 612.35.

.5 **Animal Heat.**

.51 Sources of Heat.
.52 Loss of Heat.
.53 Regulation of Heat.
.54 Conditions Influencing Temperature.
.55 Variations of Heat.
.56 Temperature of Body.
.57 Fever. See 616.92, Diseases.
.58

.6 **Reproduction. Development.**

.61 Male Functions of Generation.
.62 Female Functions of Generation.
.63 Impregnation.
.64 Development of Embryo.

For abnormal development of embryo, see 617.3, Deformities.

.65 Growth after Birth.
.66 Period of full Development.

1, Puberty; 2, Menstruation; 3, Fecundity; 4, Lactation.

.67 Period of Decline. Death. See also 577.7, Biology.
.68 Longevity. See 368.3, Life Insurance; 519.5, Probabilities; 614.12, Death Rates.
.69

.7 **Function of Motor and Vocal Apparatus and Skin.**

.71 Protoplasm. See 576.2, Origin of Life.
.72 Cilia.
.73 Smooth Muscles.
.74 Striped Muscles.

For structure and chemical composition of muscles, see 611.73, Anatomy.
1, Contraction; 2, Rigor; 3, Electrical Phenomena; 4, Chemical Changes; 5, Heat Production. See also 612.51, Animal Heat.

.75 Bones. Joints.
.76 Locomotion.
.77
.78 Voice and Speech. See 784.9, Vocal Hygiene; 808.5, Elocution; 534.7, Sound.
.79 Skin. Hair. Nails.

612.8 **Nervous Functions.**

.81 Nerve Fibres.
.82 Central Nervous System. Brain.
.83 Spinal Cord.
.84 Sight. See also 152.1, Mental faculties; 535.7, Optics.
.85 Hearing. See also 152.2, Mental faculties; 534.7, Acoustics.
.86 Smell. Olfaction. See also 152.3.
.87 Taste. Gustation. See also 152.4.
.88 Touch. See also 152.5.
.1, Space; .2, Temperature; .3, Pressure; .4, Pain; .5, Muscular Sense; see also 152.6.
.89 Sympathetic Nervous System. Ganglia.

613 Personal Hygiene.

Care of Health; Prophylaxis; Individual Health; Laws of Health.
.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930–999.

.1 **Air and Light.**

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.
.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.
.13 Seasons. Time of Day.
.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773, and 614.772.
.15 Purification of Air.
.16 Special Influences. Ozone, Electricity, etc.
.17 Quantity of Air Necessary.
.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.
.19 Sunlight.

.2 **Food. Dietetics.**

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.
Including food for special classes of people; literary men, soldiers, etc.
.22 Food for Infants.
.23 Food for the Sick.
Including means for giving nutrition, baths, enemeta, forced alimentation, etc.
.24 Fasting. Famine. Starvation.
.25 Excess of Food.
.26 Vegetable Food.
.27 Fruits.
.28 Animal Food. Meats.
.29 Fish, Oysters, etc.

.3 **Beverages.**

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.
.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.
.33 Microscopical Analysis. For Chemical Analysis, see 543.3.
.34 Biological Analysis.
.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.
.36 Cold Drinks.
.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.
.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics.
.39 Other Beverages.

613.4 **Cleanliness of Body. Clothing.**

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet.
For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.
.42 Warm.
.43 Cold. For Swimming, see 796.
.44 Douche or Shower.
.45 Sea. Salt.
.46 Hot Air. Turkish. Russian. Roman, etc.
.47 Public.
.48 Clothing.
1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, tight boots, support from hips, etc.
.49

.5 **Human Habitation and Resort.**

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.
These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

.51 Homes.
.52 Hotels.
.53 Tenements.
.54 Schools. Colleges. See School hygiene, 371.7.
.55 Churches, Theaters, Halls, etc.
.56 Hospitals. Asylums.
.57 Prisons. Reformatories.
.58
.59 House Furnishing.
1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 **Hygiene of Employment.**

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.
Occupations made Injurious.
.62 By Inhalation of Vapors and Gases.
Bleachers, match-makers, lard refiners, etc.
.63 By Inhalation of Dust or by Absorption.
Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.
.64 By Elevated, Low, or Variable Temperature.
Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.
.65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.
Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.
.66 By Accidents. See Public health, 614.8, Protection from accidents.
Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.
.67 Military Hygiene. Barracks, Camp and Tent Life.
.68 Naval Hygiene. Ship Life.
.69 Hygiene of Travel and Exploration.

613.7 **Hygiene of Recreation and Sleep.**

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body.
For Curative gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games.

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, are grouped here by attraction.

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 **Hygiene of Nervous System.**
Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance.

.81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.

.82 Opium and Hasheesh. See also 178.8.

.83 Chloral and Caffeine. See also 178.8.

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177.

.88 Luxury. Privation.

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.

.9 **Hygiene of Offspring. Heredity.**
See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.

.93 Transmitted Disease.
See also special diseases in 616.

.94 Stirpiculture.

614 Public Health.

Public Hygiene. Public Sanitation. State Medicine. Preventive Medicine. See also 628, Sanitary Engineering; 352.4, Boards of Health.

.02, Compends; .03, Dictionaries, Cyclopædias; .04, Essays; .05, Periodicals; .06, Societies, Conventions; .07, Education; .08, Sanitary Appliances, Exhibitions; .09, History, Description, Legislation, Reports, etc., divided like 930–999, e.g. 614.0942, Public Health in England.

.1 **Registration and Vital Statistics.** See 312, Population.

.11 Births and Birth-rates.

.12 Deaths and Death-rates.
Divided geographically like 930–999, e.g. Death-rate in England, 614.1242.

.13 Mortality at Different Ages.
For Life Insurance, Life Tables, Biometry, etc., see Life Insurance, 368.3, and Life Contingencies, 519.5; Longevity, 612.68.

.131 Still-births.

.132 Infant Mortality.

.133 Mortality in Childhood.

.134 " " Adult Life.

.135 " " Old Age.

.14 Mortality of Sexes, Races, etc.

.141 " " the Sexes.

.142 " " Males.

.143 " " Females.

.144 " " Races, Colored, White, Indian, etc.

.145 " " City and Country.

.15 " " Different Occupations. See also 613.6.

.16 " from Special Diseases. Causes of Death.

.17 Marriage.

.18 Divorce. See also 173.1, Family Ethics.

.2 **State Control of Medicine.**

.21 Medical Education and Degrees. See 610.7; 378.2, Academic Degrees.

.22 Anatomy and Vivisection Laws. See 179.4, Ethics.

.23 Expert Testimony and other Medico-Legal Relations. See 340.6, Medical Jurisprudence.

.24 Registration of Physicians, Dentists, Pharmacists, etc. License to Practice.

.25 Regulation of Medical Practice. See 174.2, Professional Ethics, Physicians.

.26 Quackery and Malpractice.

.27 Nostrums and Patent Medicines. See also 614.353, Adulterations.

.28 Sale of Poisons. See 615.9, Toxicology.

.29 Medical Police.

.3 **Adulterations. Inspection of Articles Liable to Affect Public Health.** Public analysts. State laboratories. For chemical analysis see 543.

.31 Inspection of Food. For chemical analysis see 543.1; Hygiene, 613.2.

.311 Sugars. Syrups. Confectionery.

.312 Cereals. Starches. Bread.

.313 Lards. Fats. Oils. See 614.325–6, Butter, Oleomargarine.

.314 Spices. Condiments.

.315 Yeast. Baking Powders. Cream of Tartar.

.316 Vegetables. Fruits. (Fresh.)

.317 Meats. Fish. (Fresh.)

.318 Canned or Preserved Food. Vegetables. Fruits.

.319 Meat. Fish. Oysters. (Preserved.)

.32 Milk and Milk Products.

.321 Milk Analysis. See also 543.2, chemistry.

.322 Milk of Known Purity.

.323 Milk as Sold to Consumer.

.324 Cream. Skimmed Milk. Condensed Milk. Buttermilk. Kumiss.

614.325 Butter and its Imitations.
.326 Oleomargarine.
.327 Cheese and its Imitations.
.33 Other Articles of Food.
.34 Inspection of Beverages. For chemical analysis see 543.1; Hygiene, 613.3.
.341 Fermented.
.342 Wine.
.343 Brewed.
.344 Beer.
.345 Distilled.
.346 Fruit Drinks. Lemonade, Shrub, etc.
.347 Tea. Coffee. Chocolate. Cocoa. See also 613.37, Hygiene.
.348 Mineral Waters. Soda Water. See also 613.38, Hygiene; 615.79, Therapeutics.
.349 Mixed Drinks.
.35 Inspection of Drugs. For chemical analysis see 543.4.
.351 Officinal or Pharmacopœial Drugs.
.352 Non-officinal Drugs.
.353 Empirical or Patent Medicines. See also 614.27, State control.
.354 Cosmetics.
.355 Poisonous Cosmetics.
.36 Inspection of Tobacco.
.37 Inspection of Pigments, Wall and other Papers, Textile Fabrics, Toys, etc.

.4 Contagious and Infectious Diseases. General.

.41 Causes and Origin. See 589.95, Bacteria, Microbes; 616.01, Germ theory of disease.
.42 Geographical Distribution. Climatology.
.43 Modes of Propagation and Communication.
.44 Prevention and Restriction. See Ambulances, 614.882.
.45 Isolation, Lazarettos, etc.
.46 Quarantine, etc.
.461 Maritime Quarantine.
.462 Inland "
.463 Control of Rags, etc.
.47 Protective Inoculation.
.471 Against Small-pox. See also 616.912, Pathology.
.472 Variolation.
.473 Vaccination.
.1, Bovine Vaccination; .2, Humanized Vaccination; .3, Vaccinal Syphilis; .4, Re-vaccination; .5, Vaccinisation; .6, Re-vaccinisation; .7, Retro-vaccination; .8, Compulsory Vaccination; .9, Optional Vaccination.
.474 Anti-vaccination.
.475 Against Cholera. See also 616.932, Pathology.
.476 " Yellow Fever. See also 616.928, Pathology.
.477 " Hydrophobia. Pasteurism. See also 616.953, Pathology.
.48 Disinfection. Houses, Clothing, Rags, Workshops, Cars, Ships, Camps, Air, Soil, Persons, Sewers, Vaults, Excreta. Dead, see Embalming, etc., 614.64.
.481 Fumigating and other Apparatus. 1, Stationary; 2, Portable.
.482 Disinfectants. Antiseptics. Deodorizers.
Treated with reference to Public Health. See also Materia Medica 615.777 & 615.778.
.483 Heat.
.484 Chemical Disinfectants.
.485 Carbolic.
.486 Salicylic.
.487 Chlorides.
.488 Copperas.
.489
.49 Epidemics. Plagues.

614.5 Contagious and Infectious Diseases. Special.

These heads are for Public Health discussions only. For treatment, etc., see Pathology, 616.

.51 Filth Diseases.
.511 Typhoid or Enteric Fever.
.512 Diphtheria.
.513 Diarrhœal Diseases.
.514 Cholera.
.515 Cholera-infantum.
.516 Dysentery.
.517 Diarrhœa.
.52 Exanthemata.
.521 Small-pox.
.522 Scarlet Fever.
.523 Measles.
.524 Rötheln.
.525 Chicken-pox.
.526 Typhus.
.53 Malarial Fevers.
.531 Intermittent Fever.
.532 Remittent Fever.
.54 Other Contagious and Infectious Diseases.
.541 Yellow Fever.
.542 Phthisis.
.543 Whooping-cough.
.544 Mumps.
.545 Puerperal Fever. See also 618.
.546 Leprosy.
.547 Syphilis.
.548 Gonorrhea.
.55 Parasitic Diseases.
.56 Diseases Communicated from Lower Animals.
.561 Anthrax. Charbon.
.562 Trichiniasis.
.563 Hydrophobia.
.564 Glanders.

.6 Disposal of the Dead.

See 393, Customs. Treatment of the dead.

.61 Burial.
.611 Earth-burial.
.612 Tomb-burial.
.613 Burials in Churches. Intra-mural.
.614 Use of Perishable Coffins.
.62 Cremation. Crematories.
.63 Transportation of the Dead.
.64 Embalming and Disinfection of the Dead. Use of Ice.
See 614.48, Disinfection; 615.777, Disinfectants.
.65 Effect of Cemeteries on Health.
.651 By Water Pollution.
.652 " Air "

614.7 Hygiene of the Air and Ground. Nuisances.

See 613.1, Air, Hygiene; 613.6, Hygiene of employment; 628.5, Industrial sanitation.

.71 Air Pollution by Dust and Smoke.
.72 Air Pollution by Noxious Gases, Mineral Trades, Chemical Works.
.721 Carbon Compounds.
.722 Carbonic Oxide, Carbonic Acid, Carburetted Hydrogen.
.723 Illuminating Gases. Gas Works.
.724 Mineral Oil Refining.
.725 Sulphur Compounds.
.726 Chlorine "
.727 Nitrogen "
.728 Phosphorus "
.729 Other.
.73 Air Pollution by Vegetable Trades.
.731 Brewing.
.732 Distilling.
.733 Vinegar Making.
.734 Sugar Refining.
735 Charcoal Burning.
.736 Varnish Making.
.74 Air Pollution by Animal Trades.
.741 Slaughter Houses. Abattoirs. Fish.
.742 Rendering Works. Bone-boiling. Tripe and Gut Cleaning.
.743 Pork Packing. Lard Refining.
.744 Soap Making.
.745 Tanning.
.746 Glue Making.
.747 Lampblack.
.748 Commercial Fertilizers.
.75 Storage and Handling of Noxious and Offensive Materials.
.76 Other Air Pollutions. See 628, Sanitary engineering.
.761 Stables. Stable Manure.
.762 Hog Styes.
.763 Offal. Dead and Diseased Animals and Fish.
.764 Vaults. Cess-pools. Water Closets, Privies, Urinals, Night-soil.
.765 Sewers and Sewer Outlets. Sewer Gas.
.77 Conditions of Soil as Affecting Health. Topography. Sanitary Surveys.
.771 Analysis of Soils. See 543.7, Chemistry.
.772 Soil Moisture. Hygiene of Natural Water Courses and of Marshes. See 613.14, Hygiene.
.773 Ground Atmosphere. See 613.14, Hygiene.
.774 Solid Constituents of Soil.
.775 Malarious Soils. See 613.14, Hygiene.
.776 Recovery of Soils from Pollution.
.78 Air and Ground in Towns.
.781 Laying Out of Towns and Streets.
.782 Subways and Elevated Ways. See 628.47, Sanitation of Towns.
.783 Parks. Air Spaces.
.784 Hight of Buildings and Proportion of Occupiable Area. See 614.85, Building laws.

614.8 Protection of Human Life from Accidents, Casualties, etc.

See 613.66 Hygiene of employment.

.81 Drowning.
.811 Rescue of the Drowning.
.812 Resuscitation of the Drowned. First Help.
.82 Suffocation.
By gases, in vaults, mines, etc.; see 622.8, Mining dangers. By illuminating gases.
.83 Explosions.
.831 Manufacture and Storage of Explosives and Combustibles. See 662, Chemical technology.
.832 Gunpowder.
.833 Dynamite, etc.
.834 Inspection of Kerosene, etc.
.835 " of Illuminating Gas.
.836 " of Electric Apparatus.
.837 " of Steam Boilers.
.84 Fires.
.841 Fire Prevention.
.842 " Detection.
.843 " Extinction. See 352.3, Fire Department.
.844 Automatic.
.845 Chemical Extinguishers.
.846 Fire Engines. Water Towers. See 621.68, Pumping engines.
.847 " Escapes and Other Apparatus.
.848 " Exits, etc., from Public Buildings.
.85 Building Laws. Inspection of Buildings. See 614.784, Hight of Buildings.
.86 Protection of Travelers.
.861 Travel on Land.
.862 on Highways.
.863 " Railroads.
.864 Travel on Water.
.865 Light-houses, Buoys, etc.
.866 Pilots.
.867 Boats, Life-preservers, etc.
.868 Rescue of Shipwrecked. Life-saving Service.
.87 Exposure to Cold. Hospice of St. Bernard.
.88 Aid to Injured.
.881 Ambulance.
.882 Ambulance for Contagious Diseases. See also 614.44.
.883 "The Bed Wagon."

.9 Hygiene of Animals. Veterinary Sanitation.

.91 Infectious Diseases of Domestic Animals.
.92 Parasites of Animals. See 591.69, Economic zoölogy.
.93 Animal Diseases Communicable to Man. See also 614.56.
.94 Care and Housing of Animals.
.95 Feeding of Animals.
.96 Transportation of Animals.
.97 Methods of Slaughtering.
.971 Painless Extinction of Animal Life.

615 Materia Medica and Therapeutics.

.02, Compends; .05, Pharmaceutical Journals; .06, Pharmaceutical Societies; .07, Education, Schools of Pharmacy; .09, History.

.1 Materia Medica. Drugs.

For Examining boards, Laws, etc., see 614.24, Registration of Pharmacists. See also 614.35, Adulteration of drugs; 543.4, Chemical analysis.

.11 Pharmacopœias.
.12 Dispensatories.
.13 Formularies.
.14 Prescription writing. Posology.

.2 Inorganic Drugs.

Divided like 546. 615.218, Phosphorus; 615.258, Mercury; 615.272, Iron.

.3 Organic Drugs.

.31 Carbon Compounds. Divided chemically like 547.
.32 Vegetable Products. Divided botanically like 580.
.33 Vegetable Products. Divided by character.

1, Starches; 2, Sugar; 3, Glucosides; 4, Tannins; 5, Gums; 6, Drugs containing Alkaloids; 7, Bitters; 8, Organic Acids.

.34 Fixed Oils and Acids.
.35 Ferments. Diastase, Pepsin, etc.
.36 Animal products. Organic extracts. Antitoxins (F. K. Smith)

.4 Practical Pharmacy.

.5 Therapeutics. Action of Medicines in General.

.51 Certainty of Medicines.
.52 Antagonism of Medicines.
.53 Law of Similars. Homœopathy.

Homœopathic works are classed with the subjects treated. This head is for Hahnemann's theory only.

.54 Influence of Age.

Infant therapeutics. Therapeutics of old age.

.55 Influence of Sex.
.56 Influence of Environment.
.57 Influence of Idiosyncracy.

.6 Administration of Medicines.

.61 By Stomach.
.62 " Rectum.
.63 " Subcutaneous tissue. Hypodermic medication.
.64 " Lungs. Inhalation. See also 612.385, Absorption.
.65 " Veins. Transfusion of blood.
.66 " Serous and Mucous Membranes. Peritoneum, Vagina, etc.

See also 612.387, Absorption.

.67 " Skin. Baths. See also 612.384, Absorption.
.68 " Electrical action. Cataphoresis (F. K. Smith)

.7 Medicines grouped by Effects.

Treatises on specific drugs, Digitalis, Ergot, etc., are classed in the divisions of Materia Medica, 615.2–615.3; Iron, 615.272; Digitalis, 615.32381.

.71 Drugs acting on Circulatory System.
.711 Stimulants.

Alcohol, Ammonia, Digitalis, Coffee, Ergot.

.716 Depressants.

Aconite, Veratrum group, Nitrites.

.72 Drugs acting on Respiratory System.
.721 Expectorants.
.726 Errhines. Sneezing.

615.73 Drugs acting on Digestive System.
.731 Emetics.

Ipecac, Mustard, Metallic Salts, Apomorphine.

.732 Cathartics.

1, Laxatives; 2. Salines; 3, Purgatives; 4, Hydragogues; 5, Drastics; 6, Mercurials.

.733 Anthelmintics.
.734 Aids to Digestion.

1, Bitters, Tonics; 2, Ferments, Pepsin, Pancreatine, etc.; 3, Acids, Antacids.

.735 Demulcents, Emollients, etc.

Bismuth, Oxalate of Cerium, etc.

.74 Drugs acting on Glandular System.
.741 Sialagogues. (Saliva.)
.742 Cholagogues. (Bile.)
.743 Diaphoretics. (Perspiration.)

Pilocarpine, Heat, Exercise.

.75 Antipyretics. Antiperiodics.

Quinine, Salicylates, Coal-tar products, Kairin, Antipyrin, Antifebrin, Cold, Baths. See also 613.41, Baths.

.76 Drugs acting on Genito-Urinary System.
.761 Diuretics.

Water, Citrates, Acetates, Digitalis, Caffeine, Copaiba.

.766 Uterines. Oxytocics.

Viburnum, Ergot, etc.

.77 External Agencies.
.771 Irritating.
.772 Astringents.
.773 Rubefacients.
.774 Epispastics. Blisters.
.775 Escharotics. Caustic potassa.
.776 Protective. Emollient.

Fats, Oils, Powders, Starch, Bismuth, Oxide of Zinc.

.777 Deodorants. Disinfectants. See 614.48, Disinfection; 614.64, Disinfection of dead.
.778 Antiseptics. Germicides.
.78 Drugs acting on Nervous System. See also 615.95, Neurotic Poisons.
.781 Anæsthetics. Chloroform, Ether.
.782 Hypnotics. Chloral, Bromides.
.783 Analgesics. Opium.
.784 Mydriatics. Belladonna.
.785 Excitants. Strychnine.
.786 Depressants. Conium.
.788
.789 Other Drugs.

Camphor, Valerian, Asafetida.

.79 Mineral Waters. See also 613.38, Hygiene; 553.7, Occurrence in nature.

.8 Other Remedies.

.81 Mechanical Remedies.
.811 Blood-letting. Venesection. Cupping.
.812 Setons and Issues.
.813 Bandages. Ligatures.
.814 Acupuncture.
.815 Pneumatic Aspiration.
.82 Massage. See also 613.71, Gymnastics.

615.83 Imponderable Remedies.
.831 Light. Blue glass.
.832 Temperature. Heat. Cold.
.833 Moisture.
.834 Climate. See also 613.1, Hygiene.
.835 Altitude.
.836 Pneumatic Differentiation.
.837 Music.
.84 Electricity. Electro Therapeutics. See 537.87.
.85 Cures.
See file .851 Mind Cure. Influence of mind on body. Christian science, see 131. (Cr
See also 130, Mind and Body.
.852 Faith Cure. See 265.8, Religion.
.853 Water Cure.
.854 Food Cures. Grapes, Milk, Beef, etc. Kumiss (Cr
.855 Thomsonianism. Herb Doctors.
.856 Perkinism. Metallic Tractors.
.86 Oxygen as life-saving agent (Myers) .857 Sea voyages (Myers)
.87
.88 Patent medicines
.89 Ancient and Mediæval Remedies.
Including those of modern uncivilized peoples.

.9 Toxicology. Poisons.

For detectinn of poisons, see 543.5: Sale of poisons, 614.28: Poisoned wounds, 617.148.

.91 Irritant Poisons.
.92 Mineral Irritants.
.921 Acid Poisons
.922 Alkaline Poisons.
.923 Non-metallic Poisons.
.924 Phosphorus. See also 615.218, Drugs.
.925 Metallic Poisons.
.926 Arsenic. See also 615.219, Drugs.
.927 Mercury. See also 615.258, Drugs.
.928 Lead. See also 615.251, Drugs.
.929 Copper. See also 615.256, Drugs.
.93 Vegetable Irritants. Artificial dyes (Cr) Aniline " (Bigelow)
Hellebore, Aloes, Croton oil, etc.
.94 Animal Poisons. Venom (Cr)
Cantharides, Diseased meat, Ptomaines, Tyrotoxicon, etc.
.95 Neurotic Poisons. See also 615.78, Drugs acting on nervous system.
.96 Cerebral or Narcotic Poisons. Carbonic oxide and acid.
.961 Opium.
.962 Prussic Acid.
.963 Cyanides.
.964 Alcohol.
.965 Ether.
.966 Chloroform.
.967 Chloral Hydrate.
.97 Spinal Poisons.
Nux vomica, Strychnia.
.98 Cerebrospinal Poisons.
Aconite, Belladonna, Lobelia.
.99 Cerebrocardiac Poisons.
Digitalis, Tobacco.

.07 [illegible]

616 Pathology. Diseases. Treatment.

May be subdivided by a o like 610, if wished. Use 616.01 for Etiology, Germ theory, Classification of diseases. Use 616.07 for Diagnosis, Study of disease, and subdivide it as follows: 1, Pulse; 2, Tongue; 3, Eye, Skin, etc.; 4, Auscultation, Percussion; 5, Thermometry; 6, Chemistry, Urine analysis; 7, Microscopy; 8, Pathological anatomy: 9, Post-mortem examinatinn. .01 - .09 subd. F.K. by Smith

.1 Diseases of Circulatory System.

.11 Membranes of the Heart.
.12 Heart. Angina Pectoris.
.13 Arteries.
.14 Veins.
.15 Blood.

.2 Diseases of Respiratory System.

01, Croup: 02. Hay Asthma, Hay Fever; 03, Influenza, Epidemic Catarrh; 04. Whooping Cough, see also 614.543: 05, Coryza, Catarrh; 06, Asphyxia.

.21 Nose. Naso-pharyngeal Space.
.22 Larynx.
.23 Trachæa. Bronchi. Bronchitis. Asthma.
.24 Lungs.
1, Pneumonia. Lung Fever; 2, Congestion; 3, Hemorrhage; 4, Abscess; 5, Gangrene: 6. Phthisis, Consumption, see also 614.542; 7, Embolism and Aneurism of Pulmonary Artery; 8, Emphysema; 9, Collapse.
.25 Pleura. Pleurisy.

.3 Diseases of the Digestive System.

For diseases of teeth see 617.6.

.31 Mouth. Tongue. Fauces.— Sore Throat. Quinsy. Mumps. See also 614.544.
.32 Pharynx. Œsophagus.
.33 Stomach.— Gastritis. Dyspepsia. Vomiting.
.34 Intestines.— Hernia. Diarrhea. Constipation. Colic.
.35 Rectum. Anus.— Piles.
.36 Liver. Gall-Bladder.— Jaundice.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.— Peritonitis.
.39 Dietetic Diseases.
Surfeit. Starvation. Scurvy. Dyspepsia.

.4 Diseases of the Lymphatic System.

.41 Spleen.
.42 Lymphatics. Thoracic Duct.
.43 Thymus.
.44 Thyroid Body. Goitre.
.45 Suprarenal bodies.

See Cushman

.5 Dermatology. Skin Diseases.

.51 Inflammatory Affections.
Diffuse. Papular, Scaly. Nettlerash. Hives.
52 Catarrhal, Vesicular, Pustular. Eczema. Shingles. See also 614.561.
53 Disorders of Sebaceous Glands.
54 Hypertrophies. Atrophies.
Corns. Warts. White hair. Baldness.
.55 New Formations. Pigmentary Changes.
Albinism. Freckles.
.56 Disorders of Sweat Glands.
.57 Parasitic Diseases. See 616.96, Parasitic Diseases.
.58 Other Skin Diseases.
Chilblain. Frostbite. Chaps.

616.6 **Diseases of Genito-Urinary System.**

For Diseases of women, see 618.

.61 Kidneys. Ducts.— Bright's Disease.
.62 Bladder.— Calculus.
.63 Urinary Disorders.— Diabetes.
.64 Male Urethra.
.65 Prostate.
.66 Penis.
.67 Scrotum.
.68 Spermatic cord. Testes.
.69 Functional Diseases of Male Generative Organs.— Spermatorrhœa. Impotence.

.7 **Diseases of the Organs of Locomotion.**

.71 Bones (except spine).
.72 Joints (except spine).
.73 Spine.— Curvature.
.74 Muscles.
.75 Tendons. Fasciæ.
.76 Bursæ. Sheaths of Tendons.
.77 Connective Tissue.

.8 **Diseases of Nervous System.**

.81 Diseases relating to Cerebro-Spinal Circulation. Apoplexy.
.82 Diseases relating to Cerebro-Spinal Meninges.
.83 Structural Diseases of Brain and Cord.
.84 Functional Diseases of Brain and Cord.

1, Vertigo; 2, Paralysis; 3, Neurasthenia; 4, Spinal Irritation; 5, Eclampsia, Convulsions.
For Insanity see 132.1.

.85 Neuroses.

1, Chorea, St. Vitus's Dance; 2, Hysteria, see 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria; 3, Epilepsy; 4, Tetanus, Lockjaw; 5, Aphasia; 6, Anæsthesia, Hyperæsthesia; 7, Megrim, Sick-headache.

.86 Neuroses due to special Poisons.

1, Alcoholism, see also Dipsomania, 132.7; 2, Metallic Tremor.

.87 Diseases of Nerves.— Neuralgia. Cramp.
.88 Diseases of Sympathetic System.

.9 **General Diseases.**

.91 Infectious Diseases.

1, Eruptive Fevers; 2, Small Pox, see also 614.471 and 614.521; 3, Cow Pox; 4, Chicken Pox, see also 614.525; 5, Measles, see also 614.523; 6, Rubeola, see also 614.524; 7, Scarlet Fever, Scarlatina, see also 614.522.

.92 Other Fevers. General Works on Fevers. See 612.57, Animal Heat.

1, Dengue, Break-bone Fever; 2, Typhus, see also 614.526; 3, Plague; 4, Relapsing Fever, Famine Fever; 5, Cerebro-spinal Fever; 6, Simple Continued Fever; 7, Enteric Fever, Typhoid Fever, see also 614.511; 8, Yellow Fever, see also 614.476 & 614.541.

.93 Diphtheria. Cholera. Malarial Fever.

1, Diphtheria, see also 614.512; 2, Asiatic Cholera, see also 614.475 and 614.514; 3, Sporadic Cholera; 4, Epidemic Diarrhœa, see also 614.517; 5, Dysentery, see also 614.516; 6, Malarial Fever, see also 614.53.

.94 Septic Diseases.

1, Phagedæna; 2, Erysipelas; 3, Pyæmia; 4, Septicæmia.

.95 Venereal Diseases. Hydrophobia, etc.

1, Syphilis, see also 614.547; 2, Gonorrhœa, see also 614.548; 3, Hydrophobia, see also 614.477 and 614.563; 4, Glanders, see also 614.564; 5, Horse Pox; 6, Splenic Fever.

616.96 Parasitic Diseases. See also 614.55.
.961 Animal Parasites. See 591.69, Economic Zoölogy; 614.92, Parasites of animals.
.962 Entozoa.
.963 Trematoda. Flukes.
.964 Cestoda. Tape-worms.
.965 Nematoda. Round worms, Thread worms, Trichinæ. See also 614.562.
.966 Acanthocephala. Thorn-headed worms.
.967 Insecta parasitica. Maggots.
.968 Ectozoa.

1, Insecta parasitica, Musquitoes, Gnats, Bed bugs, Fleas, Lice; 5, Arachnida parasitica, Mites, Ticks; 8, Suctoria parasitica, Leeches.

.969 Vegetable Parasites. See 581.69, Economic Botany.
.97 Effects of Poisons. See 615.9, Toxicology.
.98 Effects of Injuries and Climate.

1, Presence of foreign bodies; 2, Mechanical injuries; 3, Excessive Exertion and Strain; 4, Excessive Venery; 5, Privation; 6, Exhaustion; 7, Chemical agents; 8, Climate.

.99 Other General Diseases.
.991 Rheumatism, Rheumatic Fever. Gout.
.992 Tumors.
.993 Non-malignant. Cysts. Wens.
.994 Malignant. Cancer.
.995 Tubercle.
.996 Scrofula. Rickets.
.997 Myxœdema. Cretinism.
.998 Leprosy. See also 614.546.

617 Surgery.

May be subdivided by a 0 like 610, if wished.

.1 **Injuries.**

.11 Burns and Scalds.
.12 Lightning and Electric Shock.
.13 Contusions and Abrasions.
.14 Wounds.

1, Incised; 2, Contused; 3, Lacerated; 4, Punctured; 5, Gun-shot, see 617.99 Military surgery; 6, With lodgment of foreign bodies; 7, With complete separation of parts; 8, Poisoned, see 615.9 Toxicology.

.15 Fractures.
.16 Dislocations.
.17 Sprains.
.18 Asphyxia.

.2 **Results of Injuries.**

Constitutional effects and other complications. See also 616.94, Septic diseases.

.21 Shock.
.22 Inflammation.
.23 Abscess. Sinus. Fistula.
.24 Ulcers. Sores.
.25 Mortification. Gangrene.
.26 Traumatic Fever.
.27 Tetanus. See also 616.854.

617.3 **Orthopædic Surgery. Deformities.**

For convenience the whole subject of deformities is classed here, though many of them have no surgical treatment. See also 573.8, Dwarfs and Giants; 573.9, Monstrosities; 613.91 Congenital defects.

.31 Incomplete Development or Growth.
Divided like 611, Anatomy.

.32 Incomplete Coalescence of Parts. Harelip.
.33 Coalescence of Parts.
.34 Extension of Commissure (Apparent Duplication).
.35 Coalescence of Fœtuses. Siamese Twins.
.36 Supernumary Parts or Organs. Extra Fingers or Toes.
.37 Disproportionate Growth of Parts.
.38 Transposition or Displacement of Parts.
.39 Congenital Distortions, including Talipes, Club Foot.

.4 **Surgical Operations.**

.41 Circulatory System.
.42 Respiratory System.
.43 Digestive System.
.44 Glandular and Lymphatic System.
.45
.46 Genito-Urinary System.
.47 Motor and Integumentary System.
.48 Nervous System.

.5 **Regional Surgery.**

.51 Head. Trephining.
.52 Face. Mouth. See 617.6, Dentistry; 617.7, Eye; 617.8, Ear.
.53 Neck. Throat.
.54 Chest.
.55 Abdomen.
.56 Pelvis.
.57 Upper Extremities. Artificial Arms, Hands, etc.
.58 Lower Extremities. Artificial Legs, Feet, etc.

.6 **Dentistry. Diseases of Teeth.**

.61 Diseases of Dental Pulp.
.62 Diseases of Dentine and Cementum.
.63 Diseases of Dental Periosteum.
.64 Malposition and Malformation of Teeth.
.65 Odontalgia. Toothache.
.66 Extraction of Teeth.
.67 Stopping Teeth.
.68 Transplanting Teeth.
.69 Artificial Teeth.

.7 **Ophthalmic Surgery. Diseases of the Eye.**

.71 Conjunctiva. Cornea. Sclerotic. Ophthalmia.
.72 Iris. Choroid. Ciliary Body.
.73 Optic Nerve. Retina.
.74 Lens and its Capsule. Vitreous Humor. Affections of the Globe. Cataract.
.75 Disorders of Vision.
Myopia, Shortsightedness, Astigmatism, Color-blindness.
.76 Muscular Apparatus. Lachrymal Apparatus.
Strabismus, Squint.
.77 Eyelids.
.78 Orbit and Neighboring Parts.
.79 Artificial Eyes.

617.8 **Diseases of the Ear.**

.81 Affections of External Ear.
.82 Auricle.
.83 Auditory Canal.
.84 Affections of Middle Ear.
.85 Membrana Tympani.
.86 Eustachian Tubes.
.87 Mastoid Cells.
.88 Affections of Internal Ear.
.89

.9 **Operative Surgery.**

See 615.781, Anæsthetics.

.91 Armamentaria. Surgical Instruments.
.92 Orthopædic Appliances. Splints, Trusses, etc.
See 617.3, Orthopædic surgery.
.93 Surgical Dressings.
.94 Amputation. Resection.
.95 Plastic Surgery.
.96
.97
.98
.99 Military Surgery.

618 Diseases of Women and Children. Obstetrics.

.1 **Gynæcology. Diseases of Women.**

.11 Ovary.
.12 Fallopian Tube.
.13 Periüterine Diseases.
.14 Uterus and Cervix.
.15 Vagina.
.16 Vulva.
.17 Functional and Symptomatic Disorders.
Diseases of Menstruation. Leucorrhœa. Sterility.
.18
.19 Diseases of Breast.

.2 **Obstetrics.**

.21 **Pregnancy. Physiology.**

.22 Diagnosis. Signs of Pregnancy.
.23 Duration.
.24 Hygiene. Management.
.25 Multiple Pregnancy. Twins, etc.

.3 **Pathology of Pregnancy.**

Diseases of Pregnancy and their Treatment.

.31 Ectopic Gestation. Extra-uterine Pregnancy
.32 Pathology of Ovum.
.33 Death and Retention of Fœtus.
.34 Pathology of Fœtal Appendages.
.35 Decidua.
.36 Placenta.
.37 Amnion.
.38 Umbilical Cord.
.39 Abortion. Miscarriage. Stillbirth. Molar Pregnancy.
See 173.4, Infanticide; 340.6, Medical jurisprudence; 343, Criminal law.

618.4 **Parturition. Labor. Physiology.**

.41 Mechanism of Labor.
.42 Presentations. Positions.
.43 Clinical Course and Phenomena.
.44 Conduct of Normal Labor. Management.

.5 **Pathology of Labor.**

Abnormal Labor from Faults
.51 of Powers. Anomalies of Expellent Forces.
.52 of Passages. Mechanical Obstacles to Expulsion of Fœtus.
.53 of Child. Abnormalities of Fœtus. See 617.3, Deformities. Complications.
.54 Hemorrhage.
.55 Rupture or Laceration of Genital Tract.
.56 Retention of Placenta.
.57 Inversion of Uterus.
.58 Prolapsus Funis.
.59 Other Complications.

.6 **Puerperal State. Physiology.**

Management, including care of child.

.7 **Pathology of Puerperal State. Puerperal Diseases.**

.71 Diseases of Lactation. Milk Fever. Mastitis, etc.
.72 Puerperal Fever. See 614.545, Public health.
.73 Metritis. Peritonitis, see also 616.38. Cellulitis.
.74 Septicæmia, see also 616.944. Pyæmia, see also 616.943.
.75 Convulsions. See 616.845, Eclampsia.
.76 Puerperal Mania. See 132.1, Insanity.
.77 Phlebitis. Venous Thrombosis. Phlegmasia Dolens. See 616.14, Diseases of veins.
.78 Other Puerperal Affections.
.79 Sudden Death after Delivery.

.8 **Obstetric Operations.**

.81 Application of Lever and Forceps.
.82 Version.
.83 Embryotomy.
.84 Dilatation of Os and Cervix.
.85 Symphyseotomy.
.86 Cæsarian Section.
.87 Removal of Placenta.
.88 Induction of Labor. Removal of Ovum.
.89 Intra-uterine Injections. Antiseptics in Midwifery.

.9 **Pædiatrics. Diseases of Children.**

619 Comparative Medicine. Veterinary.

.1 **Horses.**
.2 **Cattle.**
.3 **Sheep, Goats.**
.4 **Swine.**
.5 **Poultry.**
.6 **Birds.**
.7 **Dogs.**
.8 **Cats.**
.9 **Other.**

620 Engineering.

.01, Statistics; .02, Quantities and Cost; .03, Contracts and Specifications; .04, Designs and Drawings; .05, Executive; .06, Working and Maintenance; .07, Laws; .08, Patents; .09, Reports.
.1, Strength of Materials; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Tables and Calculations; .9, History of Engineering.

621 Mechanical Engineering.

May be subdivided like 620 and 620.0.

.1 **Steam Engineering.** See 536.81.

.11 Mechanism of Steam Engine.
.12 Marine Engines and Ship Propulsion. See 699.
.13 Locomotive Engines.
.14 Traction Engines.
.15 Portable Engines.
.16 Stationary Engines.
.17
.18 Steam Generation. Boilers. Furnaces.
.19 Steam Heating. See 697, 536.83, 628.8, 644.

.2 **Water Engines or Motors.**

.21 Water Wheels. See 532.84.
.22 Overshot and Breast Wheels.
.23 Undershot Wheels.
.24 Turbines.
.25 Water Pressure Engines. See 532.82.
.26 Hydraulic Presses. See 532.81.
.27 Hydraulic Ram. See 532.83.
.28
.29 Mill Dams. Sluices, etc. See 627.8.

.3 **Electrical Engineering.**

.31 Dynamo Machines. See 537.83.
.32 Electric Lighting. See 537.83.
.33 Electric Railways.
.34 Transmission of Electric Force. See 537.84.
.35 Storage of Electric Force. See 537.84.

.4 **Air and Gas Engines and other Motors.**

.41 Caloric Engines.
.42 Compressed Air Engines.
.43 Ignited Gas Engines. See 536.82.
.44 Binary Vapor Engines.
.45 Windmills.
.46 Animal Motors. Tread Mills.
.47 Solar Engines.

.5 **Air Compressors. Ice Machines.**

.6 **Blowing and Pumping Engines.**

.61 Piston Blowers.
.62 Rotary Blowers. Fans.
.63 Centrifugal Blowers.
.64 Steam Pumps and Pumping Engines.
.65 Piston Pumps.
.66 Rotary Pumps.
.67 Centrifugal Pumps.
.68 Fire Engines. See 352.3, Fire Dep't; 614.84, Fires.
.69

621.7 **Mills and Manufacturing Works.**

.8 **Mill Work and Mechanism of Transmission.**

.81 Principles of Mechanism. See 531.8.
.82 Journals, Shafting, etc.
.83 Toothed Wheels.
.84 Valve Motions and Gears.
.85 Machinery and Mill Gearing.
.86 Hoisting and Conveying Machinery.
.87 Cranes and Elevators.
.88
.89 Lubricants. Friction. See also 531.4, Mechanics.

.9 **Machine Tools.**

.91 Planing Machines.
.92 Grinding and Filing.
.93 Cutting and Sawing.
.94 Turning and Milling. Lathes.
.95 Perforating. Drills.
.96 Punching and Shearing.
.97 Hammers. Riveting.
.98 Bending. Straightening. Shaping.
.99 Fastening. Bolts. Rivets. Screws.

622 Mining Engineering. See also 338.2, Mining products.

May be subdivided like 620 and 620.c; e. g. Societies, 622.c6; Reports, 022.009

.1 **Exploration and Prospecting.**

.11 Theory. Applied Geology, etc.
.12 Prospecting. Practical Methods
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19.
.17
.18
.19 Mining Prospectuses. See 553

.2 **Practical Mining.**

.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering. Masonry lining. See also 622.56.

.3 **Working of Mines. Exploitation.**

.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Coal Mining. See 553.2.
.34 Metal Mining. See 553.3 and .4.
.35 Working Thick Deposits.
.36 Salt Mining. See 553.63.

622.4 **Ventilation and Lighting of Mines.**

.41 Theory. Gases met with, etc.
.42 Natural Ventilation.
.43 Furnaces. Steam Jets, etc.
.44 Fans. See 621.62.
.45 Airways. Stoppings. Regulators.
.46 Measurement of Ventilation.
.47 Lighting. Safety Lamps, etc.

.5 **Drainage.**

.51 Theory of Infiltration of Water.
.52 Natural Drainage.
.53 Cornish Pumps. See 621.64.
.54 Steam Pumps. See 621.64.
.55 Hoisting of Water.
.56 Dams and Watertight Linings. See also 622.28, Timbering.
.57 Acid Waters.

.6 **Extraction. Hoisting and Transportation.**

.61 Handling Mineral in Working Place.
.62 Underground Roads.
.63 Mine Cars. Trams, etc.
.64 Gravity Roads and Planes.
.65 Tramming and Animal Haulage. See 625.7.
.66 Mechanical Haulage.
.67 Hoisting Engines. Drums. Ropes.
.68 Cages. Skips. Buckets.
.69 Surface Transportation.
Including Mineral Roads, Wire Rope-ways, Transhipment, Loading and Unloading, etc.

.7 **Mechanical Preparation. Ore Dressing.**

.71 Theory. Preliminary Operations.
.72 Hand Dressing.
.73 Crushing. Stamping Engine.
.74 Screening.
.75 Jigging. Ore Concentrators.
.76 Slime Treatment.
.77 Magnetic Separation.
.78 Coal Washing.
.79 Dressing Works.

.8 **Dangers and Accidents.** See also 613.6, Hygiene; 331.82, Laboring classes.

.81 Explosions of Fire-Damp.
.82 Mine Fires.
.83 Crushing and Fall of Ground.
.84 Flooding of Mines.
.85 Accidents to Miners.
.86 Rescue and Relief.
.87
.88
.89

623 Military and Naval Engineering.

For Military and Naval Science, Maneuvers, Strategy and Tactics, see 355 to 359.

.1 Fortifications. Field and Permanent.
.2 Siege Operations; Mines, etc.
.3 Defensive Operations.
.4 Ordnance and Projectiles. Arsenals.
.5 Gunnery.
.6 Military Roads and Bridges.
.7 Military Signals; Telegraph, Ballooning, etc.
.8 Naval Architecture. See also 699, Ship building.
.9 Armored Vessels, Torpedoes, etc.

624 Bridges and Roofs.

.1 Piers. Foundations, etc.
.2 Girders. Stresses and Strains.
.3 Trussed Bridges.
.4 Tubular Bridges.
.5 Suspension Bridges.
.6 Arched Bridges.
.7 Compound Structures.
.8 Movable Bridges.
.9 Roofs.

625 Railroad and Road Engineering.

See also 624, Bridges; 622.2, Tunnels; 622.26, Excavations, etc.; 621.33, Electric railways.

.1 Route. Road Bed, Rails, Ties, etc.
.2 Trains. Brakes, Couplings, Wheels, etc. See 621.13, Locomotives.
.3 Inclines and Mountain Railways.
.4 Elevated and Underground Roads. Subways. See also 614.782.
.5 Cable Roads.
.6 Horse Cars. Tramways.
.7 Roads. Highways.
.8 Pavements. See also 628.47, Sanitation of towns.
.9 Ship Railways.

626 Canal Engineering.

.1 Route.
.2 Water Supply.
.3 Size and Shape.
.4 Locks.
.5 Lifts and Inclined Planes.
.6 Canal Boats. Size, Shape, etc. See 699, Shipbuilding.
.7 Towing. Power, etc.
.8 Irrigation Canals and other Irrigation Works.
.9 Ship Canals.

627 River, Harbor, and General Hydraulic Engineering

.1 Rivers. Force of Water. Discharge. Bars.
.2 Harbors. Breakwaters.
.3 Docks. Piers. Quays. Shipping Facilities.
.4 Dikes and Levees. Embankments.
.5 Other Protection and Reclamation of Land from Tides and Waves. Drainage. For Agricultural Drainage see 631.
.6 Jetties.
.7 Dredging. Dredging Machinery.
.8 Dams.
.9 Lighthouses. Buoys.

628 Sanitary Engineering. Water-works.

.01, Theories, Utility: .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Polygraphy; .09, History and Description of Sanitation and General Sanitary Works, divided geographically like 930–999.

.1 Water Supply of Towns. For isolated supply see 628.7.

.11, Sources of Water Supply; Lakes, Rivers, Springs, Wells, and Pumping. .12, Pumping vs. Gravitation Systems; Pump-well; Stand-pipe; High Service; Holly System. .13, Storage and Service Reservoirs. .14, Conduits; Aqueducts; Tunnels (see 622). .15, Mains and Service Pipes; Freezing; Iron; Lead. .16, Impurities and their Removal; Filter-basins, etc. .17, Public (Sprinkling, Fire, Flushing), Manufacturing, and Domestic Use and Waste; Meters.

.2 Sewerage Works.

.21 Sewerage Systems.

1, Combined System; 2, Separate System; 3, Liernur System; 4, Shone System; 5, Berlier System; 6, Other Systems; 7, The Outfall; 8, Depth and Allignment; 9, Grade and Velocity.

628.22 Shape and Size of Sewers.

1, Storm-water Flow; 2, Ordinary Flow; 3, Circular Section; 4, Ordinary Egg-Shape; 5, Other Egg-Shapes; 6, Other Forms; 7, ; 8, Formulas for Size.

.23 Ventilation of Sewers.

1, Openings in Streets; 2, Lamp Posts; 3, Flues in Houses; 4, Pipes on Houses; 5, House Drains; 6, Chimneys and Furnaces; 7, Charcoal and Chemicals to deodorize sewerage gas; 8, Special Mechanism; 9, Special Construction.

.24 Design and Construction of Sewers.

.25 Sewer Appurtenances.

1, Junctions; 2, House Connections; 3, Manholes and Lampholes; 4, Flushing Shafts and Fixtures; 5, Catch Basins and Inlets; 6, Traps and Ventilators; 7, Valves and Penstocks; 8, Overflows and Regulators; 9, Miscellaneous.

.26 River Crossings.

.27 Intercepting and Outfall Sewers.

.28 Reservoirs and Tank Sewers.

.29 Pumping Stations.

.3 Disposal of Sewage.

.31 Physical Properties of Sewage.

.32 Deodorization and Disinfection of solids and liquids. See 628.237.

.33 Subsidence.

.34 Precipitation.

1, Precipitation Tanks; 2, Mixing Machinery; 3, Filter Presses; 4, Precipitation by Salts of Alumina; 5, By Lime; 6, By Salts of Iron; 7, By Other Methods; 8, Disposal of Sludge; 9, Miscellaneous.

.35 Filtration.

.36 Irrigation.

1, Broad Irrigation; 2, Ridge and Furrow Irrigation; 3, Flat Bed Irrigation; 4, Sub-Surface Irrigation; 5, Intermittent Downward Filtration; 6, Carriers and Appurtenances; 7, Drains and Drainage of Sewage Farms; 8, Filtration Areas; 9, Miscellaneous.

.37 Sewage Farming. Required modifications of ordinary methods.

.38 Sewage Manures.

.39 Discharge into Sea, etc.

.4 Sanitation of Towns.

.41 Middens and Privies.

.42 Pail Systems.

.43 Earth Closet Systems.

.44 Domestic Ashes and Garbage.

.45 Public Urinals and Latrines.

.46 Street Cleaning and Sprinkling.

.47 Pavements and Subways.

.48 Trees in Streets and Squares.

.49 Manufacture of Fertilizers from Town Wastes.

.5 Industrial Sanitation.

.51 Factories and Trades.

1, Prevention of Dust and Fumes; 2, Protection of Throat and Eyes; 3, Protection against Infection; 9, Special Trades.

.52 Effluvium Nuisances.

1, Situation of Works; 2, Use of High Chimneys; 3, Condensation in Water; 4, Combustion in Furnaces; 9, Special Trades.

.53 Smoke Nuisance.

8, From Steam Generators; 9, From Special Industries.

.54 Disposal of Solid and Liquid Wastes.

1, Discharge into Streams; 2, Absorbing Wells and Burial; 3, Clarification by Subsidence; 4, Chemical Treatment; 5, Filtration; 6, Purification by the Soil; 9, Special Methods and Special Trades.

.6 House Drainage.

.7 Rural Water Supply. Villages and Country houses.

.8 Ventilation and Heating. See 697, 644, 628.23, 622.4, 621.19.

This head is chiefly for Ventilation. Most matter on Heating goes in 697.

.9 Lighting. See 621.32, 537.83, 644, 665.

629 Other Branches of Engineering.

630 Agriculture.

1, ; 2, Compends; 3, Dictionaries, cyclopedias; 4, Essays; 5, Periodicals, 6, Societies; 7, Study and teaching; 8, ; 9, History, divided like 930–99.

631 Soil. Fertilizers. Drainage.

632 Pests. Hindrances. Blights. Insects.

633 Grains. Grasses. Fibres. Tea. Tobacco, etc.

634 Fruits. Orchards. Vineyards.

.9, Forestry. See also 715, Landscape gardening.

635 Kitchen garden. See 716 for Flower gardens.

636 Domestic animals. See also 619, Veterinary medicine; 599.7, Zoölogy.

.1 Horses. Asses. Mules. See 682.1, Horseshoeing.

.2 Cattle.

.3 Sheep. Goats.

.4 Swine.

.5 Poultry.

.6 Birds.

.7 Dogs.

.8 Cats.

.9 Other. Camels, etc.

637 Dairy. Milk. Butter. Cheese.

638 Bees. Silkworms.

639 Fishing. Trapping.

640 Domestic economy. Hotels. Flats.

See also 334.4, Coöperative housekeeping; 331.83, Laboring classes.

641 Cookery. Gastronomy.

642 Confectionery. Ices.

643 Food. Dining. Carving.

See also 613.2–.3, Hygiene; 663, Beverages; 394.1, Customs.

644 Fuel. Lights. See also 697, 665, 621.32, 621.19.

645 Furniture. Carpets. Upholstery. Plate.

646 Clothing. Toilet. Cosmetics.

See also 613.4, Hygiene; 391, Costume and care of person.

647 Servants. Training. Duties. Wages.

648 Laundry.

649 Nursery. Children. Sick-room.

650 Communication. Commerce.

651 Office equipment and methods.

652 Writing. Materials, typewriters, cipher.

653 Abbreviations. Shorthand.

.01 Theories. Available material. Shading. Position. Detached vowels.

.02 Practicability for general use. Teaching in public schools.
For methods see 653.07.

.03 Speed. See also 653.046, Verbatim reporting.

.04 Applications.
.041, Personal notes and records; .042, Correspondence; .043, Amanuensis work; .044, Newspaper work; .045, Shorthand job offices; .046, Official reporting, court and legislative; .047,

.05 Periodicals. If strictly limited to one system, class with that system.

.06 Societies. " " " "

.07 Education. Shorthand schools. Teaching, privately or in classes.

.08

.09 History. Divided by countries like 930–999.

.1 Abbreviations. Omissions of silent letters, vowels, etc.
Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4, Phonetic spelling; 421.8, Abbreviations.

.2 Abbreviation systems.
Brief longhand. Fonoscribing, etc. For telegraphic codes, see 652.
Covers only systems of quick writing with common characters.

.3 Stenographies.
Includes both discussions and systems with arbitrary signs and new characters.
.31, Before 1837; .32, Gurney; .33, Gabelsberger; .34, Stolze (Dettmann); .35, Taylor (Baker; Harding; Odell); .36, Cross; .37, Scovil; .38, Duployé (Pernin, Sloan).

.4 Phonetic shorthand. Phonographies.
Limited to phonetic stenography, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants.
.41, Before Pitman (1837); .42, Bell; .43, Jones; .44, Williams; .45,

.5 Pitman old vowel scale systems.
.51, Benn Pitman; .52, Graham; .53, Scott-Brown; .54, Marsh; .55, Thornton; .56, Haven; .57, Allen; .58,

.6 Pitman new vowel scale systems.
.61, Izaac Pitman; .62, Munson; .63, Longley; .64, Burnz; .65,

.7 Connected vowel systems.
.71, Lindsley's takigrafy; .72, Everett; .73, Barrows; .74, Bishop.

.8

.9 Foreign systems. Divided by languages like 400.
The heads above are for English systems or (as in .33) foreign systems adapted to and used for English. Other systems are grouped here by languages, but history of shorthand in special countries is in 653.09.

654 Telegraph. Cables. Signals. For codes see 652.

.1 Telegraphic instruments.

.2 Duplex, quadruplex, multiplex telegraphs, etc.

.3 Printing, perforating, dial telegraphs, etc.

.4 Telegraphic construction; poles, wires, conduits, etc.

.5 Cables. Submarine.

.6 Telephones.

.7 Alarms; burglar, fire. Annunciators, bells.

.8 Speaking tubes. Pneumatic tubes.

.9 Signals. See also 534.83, Navigation signals; 623.7, Military signals.

655 Printing. Publishing. Copyright.

.1 History of printing.

.11 Origin. Invention.

.111 Claims of Gutenberg, Mainz.

.112 Claims of Coster, Haarlem.

.12 Celebrations, anniversaries.
1, 1640; 2, 1740; 3, 1823; 4, 1840.

.13–.19 Printing in special countries. Divided like 930–999.

.2 Type and Type Setting.

.21 Type founding. Tools of the art.

.22 Electro and stereotyping, etc. Patent blocks.
For Photo-electrotyping, see 777.

.23 Patent types. Logotypes, etc.

.24 Faces; sizes; styles. Specimen books.

.25 Type setting. Composition. Proof reading.

.26 Artistic composition. Taste. Display. Job work.

.27 Imposition. Locking up, etc.

.28 Type setting and distributing machines. Linotype.

.3 Practical printing. For Calico printing, see 667.2.

.31 Printing presses.

.32 Press work. Making ready. Colors. Cuts.

.33 Drying. Hydraulic pressing, etc.

.34

.35 Stamps, stencils, etc.

.36 Machines. Paging, numbering, addressing, etc.
See also 654.3, Printing telegraphs; 651, Type writers.

.37 Nature printing. From plants, etc.

.38 Printing for blind. See also 371.91, Education of blind.

.4 History of publishing and bookselling.
Divided by countries like 930–999.

.5 Publishing and bookselling.

.51 Selection of mss.
For Freedom of press *vs.* censorship, see 323; Morals of press, 179.1.

.52 Relations to authors. Copyright payments. Prices of mss. bought.

.53 Size, paper, type, illustrations, binding.

.54 Cost of manufacture. Retail prices and discounts to dealers.

.55 Advertising, press copies and notices. See 659, Advertising.

.56 Retail bookselling. Prices and discounts to buyers.

.57 Subscription book publishing. Canvassing.

.58 Publishing societies.

.59 Publishing by governments, institutions, etc.

.6 Copyright. Literary property.

.61 Perpetual or common law right. Including ethics of copyright.

.62 Copyright in other matter than books. Music, mss., lectures, trademarks.

.63 International copyright. See also 341.5, International private law.

.64–.69 Copyright in special countries. Divided like 940–999.

656 Transportation. Railroading, etc.

657 Book-keeping. Accounts.

658 Business manuals. Methods. Tables.

659 Advertising and other topics.

660 Chemical Technology.

.1, : .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5. Periodicals, .6, Societies; .7, Study and Teaching; .8, ; .9, History of Chemical Technology.

661 Chemicals.

.1 **Chemical Elements.** Divided like 546.
.2 **Acids. Sulphuric, Nitric, etc.**
.3 **Alkalies. Potash, Soda, Ammonia.**
.4 **Salts.** For Common Salt see 664.4.
.5 **Ammonia Salts.**
.6 **Sulphates and Nitrates.**
.7 **Cyanides.**
.8

662 Pyrotechnics, Explosives, Matches, etc.

.1 **Pyrotechnics.**
.2 **Explosives.** See Blasting 622.23; Ordnance 623.4.
.3 **Gunpowder.**
.4 **Fuses. Percussion Caps.**
.5 **Matches.**
.6 **Fuel. Coal, peat, natural gas, etc.**
.7 **Charcoal. Coke.** See also 644, Domestic economy; 669.8, Metallurgy.
.8 **Artificial fuel.** See also 644, Domestic economy; 669.8, Metallurgy.
.9

663 Beverages. See also 178, Temperance; 614.35, Adulterations.

.1 **Fermented.**
.2 **Wine.**
.3 **Brewed.**
.4 **Beer.**
.5 **Distilled.**
.6 **Artificial mineral waters. Soda water.**
.7
.8 **Mixing drinks. Bar-keepers' manuals.**
.9 **Chocolate. Cocoa. Commercial mixing of teas, coffees, etc.**

664 Foods.

For Adulterations see 614.31, Public health. See also 641 and 643, Domestic economy.

.1 **Sugar, molasses, glucose, etc.**
.2 **Starch, tapioca, sago, etc.**
.3 **Artificial butter. Oleomargarine. Lard, compound lard.**
For butter, milk, and cheese see 637, Dairy.
.4 **Salt.**
.5 **Spices. Condiments.**
.6 **Yeast. Baking powder.**
For Bread see 641, Cookery.
.7
.8 **Preservation of fruits and vegetables.**
.9 " " **meat and fish.**

665 Oils. Gases. Candles. Lamps.

.1 **Candles. Torches.**
.2 **Animal oils and fats.** See also 664.3, Foods.
.3 **Vegetable oils and fats.**
.4 **Mineral oils. Paraffine. Ozocerite. Asphaltum.**
.5 **Petroleum. Kerosene.**
.6 **Lamps.** See also 644, Domestic economy.
.7 **Illuminating gases. Calcium light.**
.8 **Other gases.**
.9

666 Ceramics. Glass, etc.

.1 **Glass.** See also 748, Stained glass.
.2 **Enamel.**
.3 **Ceramics.** See also 738, Pottery, porcelain.
.4 **Clay.** See also 553.61, Economic geology.
.5 **Porcelain.**
.6 **Stoneware. Earthenware. Pottery.**
.7 **Bricks. Tiles.** See also 691.4, Building materials; 695.3, Roofing.
.8 **Artificial stone.** See also 691.3, Building materials.
.9 **Cements. Limes. Mortars.** See also 691.5, Building materials.

667 Bleaching, dyeing, etc.

.1 **Bleaching.**
.2 **Dyeing. Artificial colors. Silk and wool.**
.3 **Cotton dyeing and calico printing.**
.4 **Inks. Writing inks. Indelible inks.**
.5 **Printing inks.**
.6 **Paints and pigments.** See also 698.1, House painting; 751, Fine arts.
.7 **Varnishes. Polish. Lacquer.** See also 698.3, Varnishing.
.8 **Japan. Blacking.**
.9

668 Other organic chemical industries.

.1 **Soap.**
.2 **Glycerine.**
.3 **Glue.**
.4 **Gums and resins.**
.5 **Essences, perfumery, essential oils and ethers, etc.**
See also 646, Toilet.
.6 **Fertilizers.** See also 631, Agriculture.
.7 **Distillation. Coal tar, etc.**

669 Metallurgy and assaying.

History of metals goes here, not in 553, 622, nor 67..

.1 **Iron and steel.**
.2 **Gold and silver.**
.3 **Copper.**
.4 **Lead.**
.5 **Zinc.**
.6 **Tin.**
.7 **Mercury and other metals.**
.8 **Fuels and furnaces. Slags.**
.9 **Assaying.**

670 Manufactures.

Specific topics go where of most interest. These heads are for the *general* subject of metal, wood, etc., manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether groupt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general head is better; e. g., bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy.

671 Articles made of Metals.

672 Of Iron and Steel; Stoves, Cutlery, etc.

673 Of Brass and Bronze; Bells, etc. See also 739.

674 Lumber and Articles made of Wood.

675 Leather " " " " Leather.

676 Paper " " " " Paper.

677 Cotton, Wool, Silk, Linen, etc.

678 Rubber and Articles made of Rubber.

679 Celluloid and other.

680 Mechanic Trades. Amateur Manuals.

681 Watch and Instrument-making.

682 Blacksmithing.

.1 Horseshoeing.

683 Lock and Gun-making.

684 Carriage and Cabinet-making.

685 Saddlery and Shoe-making. Trunks.

686 Bookbinding.

687 Clothes-making. Hats.

688

689 Other Trades.

690 Building. For Architectural Construction, see 721.

.1, Theories of Construction; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies, Exhibitions; .7, Education, Study, Training, Apprenticeship, Tools and their Use (for the use of special tools see special trade); .8, Collections, Patents, Inventions; .9, History of Building Construction.

691 Materials. Processes. Preservatives.

See also 620.1, Strength of Materials.

.1 Wood. Creosoting, etc.
.2 Natural Stone. Parafining, etc.
.3 Artificial Stone. Concrete.
.4 Bricks. Tiles. Other Ceramic Productions.
.5 Lime. Cement. Plaster.
.6 Glass.
.7 Iron. Steel. Anti-rust Processes.
.8 Other Metals.
.9 Other Materials.

692 Plans. Specifications, etc.

.1 General Drawings.
.2 Detail Drawings.
.3 Specifications.
.4 Contracts. Agreements. Bids. Advertisements.
.5 Estimates. Quantities. Cost.
.6 Superintendence.
.7 Supervision of Accounts.
.8 Professional Services. Fees. Commissions.
.9 Building Laws. Liabilities of Architects, Owners, and Contractors.

693 Masonry. Plastering. Fire Proofing.

.1 Stone Construction.
.11 Bonds of Stone Work.
.12 Cutting and Dressing of Stone. See 515.8, Stereotomy; 736, Stone Carving.
.2 Brick Construction.
.21 Bonds of Brick Work.
.22 Adobe or Sun-dried Brick, etc.
.3 Terra Cotta Construction.
.4 Hollow Tile and Porous Terra Construction.
.5 Concrete and Beton Construction.
.6 Plastering.
.61 External Plastering and Stucco.
.62 Internal Plastering.
.63 Ornamental Plaster-work.
.64 Scagliola.
.65 Wooden Lath.
.66 Metal Lath. (Wire, etc.)
.67 Mineral Wool Linings, etc.
.7
.8 Fire Proofing.
.9

694 Carpentry. Joinery. Stair-building.
.1 Wood Construction, General.
.2 Joints of Wood-work. Framing.
.3 Strengthened Beams.
.4 Posts. Columns. See 721.31.
.5 Panelled and Latticed Construction.
.6 Joinery, General. For Finishing, varnish, polish, etc., see 698.3.
.7 Ornamental Joinery. Cabinet-work.
.8 Stair-building. See 515.83, Stereotomy.
.9 Other branches. See 721.87–89.

695 Roofing. Slating. Tiling. See 721.4, Roof Constructions.
.1 Shingle.
.2 Slate.
.3 Tile.
.4 Metal. Tin. Copper. Lead. Zinc.
.5 Iron.
.6 Asphalt. Tar. Concrete. (Melted.)
.7 Felt. Asbestos. Paper. (In rolls.)
.8 Textile. Duck. Canvas.
.9 Thatch and other Coverings.

696 Plumbing. Gas and Steam-fitting, etc.
.1 Plumbing. See 628, Principles of Sanitation.
.2 Gas-fitting.
.3 Steam-fitting.
.4 Rivets and Riveted Joints.
.5 Screws and Screw Joints.
.6 Rust or Calked Joints.
.7 Anchors. Band Irons.
.8 Other branches.
.9 Plumbing Laws. See also 614.

697 Heating and Ventilation. See San. Eng., 628.8; Domestic Econ., 644.
.1 Fireplaces.
.2 Stoves.
.3 Furnaces.
.4 Hot Water, high and low pressure.
.5 Steam, high and low pressure. For Boilers, see 621.18.
.6 Gas. Coal Gas, Water Gas, Natural Gas.
.7 Electric and Other Methods.
.8 Smoke Flues and Chimneys.
.9 Ventilation. Air Ducts. Conduits. Fans.

698 Painting. Glazing. Paper-hanging.
.1 Painting. Oil.
.2 Distemper and Fresco.
.3 Varnishing. Polishing.
.4 Other Modes of Protection.
.5 Glazing. See 748, Stained Glass.
.6 Paper-hanging.
.7 Textile Hangings. Tapestry.
.8 Relief Work. Lincrusta. Stamped Leather, etc.
.9 Other branches.

699 Car and Ship Building.

Fine Arts.

700 Fine Arts.

701 Philosophy. Theories. Utility. Æsthetics.
702 Compends. Outlines.
703 Dictionaries. Cyclopedias.
704 Essays. Lectures. Addresses.
705 Periodicals. Magazines. Reviews.
706 Societies. Transactions. Reports, etc.
707 Education. Study and Teaching of Art.
708 Art Galleries and Museums.
.1 American. Corcoran, Metropolitan, Boston.
.2 English. National, Hampton Court, Windsor.
.3 German. Dresden, Munich, Berlin, Vienna.
.4 French. Louvre, Luxembourg.
.5 Italian. Vatican, Sistine, Pitti, Medici, Borbonico.
.6 Spanish. Madrid, Seville.
.7 Russian. St. Petersburg, Hermitage.
.8 Scandinavian. Copenhagen.
.9 Other Countries.
709 History of Art in General. Divided like 930–999.

710 Landscape Gardening.

711 Public Parks.
712 Private Grounds. Lawns.
713 Walks. Drives.
714 Water. Fountains. Lakes.
715 Trees. Hedges. Shrubs.
See also 634.9, Forestry; 582, Botany.
716 Plants. Flowers.
.1, Plants; .2, Flowers; .3, Conservatories; .4, Window gardens; .5, Ferneries.
717 Arbors. Seats. Outlooks.
718 Monuments. Mausoleums.
719 Cemeteries. See also 393.1, Earth burial; 614.61, Public health

720 Architecture.

.1, Theories, Esthetics, Architectonics; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies; .7, Education, Study, Training, Schools of Architecture; .8, Polygraphy, Collections; .9, General History of Architecture, divided geographically like 940–999.

721 Architectural Construction.

.1 Foundations. See Bridge Engineering, 624.1, Foundations.

.11 Dimension Stone.
.12 Rubble Stone.
.13 Concrete.
.14 Sand or Gravel.
.15 Timber Gratings.
.16 Piles. Sand Piles.
.17 Sunken Wells.
.18 Sunken Tubes.
.19 Other Foundations.

.2 Walls.

.21 Wooden and Half-timbered.
.22 Stone.
.23 Artificial Stone, Concrete, Pisé, etc.
.24 Brick.
.25 Bases. Water Tables. Belt Courses.
.26 Arcades. Colonnades.
.27 Cornices.
.28 Gables and Pediments. See also 721.58, Gable Roofs.
.29 Other Walls.

.3 Piers. Columns.

.31 Wooden. See also Carpentry, 694.4.
.32 Stone.
.33 Concrete. Artificial Stone.
.34 Brick. Terra Cotta.
.35 Iron. Steel.
.36 Fire-proof. Protected.
.37
.38
.39

.4 Arched Constructions.

See 624.6, Arched Bridges; and 729.33 and 729.37, elementary forms.

.41 Arches, Circular.
.42 Arches, other forms.
.43 Vaults, Cylindrical.
.44 Vaults, Groined.
.45 Vaults, other forms.
.46 Domes, Circular.
.47 Domes, other forms.
.48
.49

721.5 Roofs. See 695, Roof Coverings; 624.9, Engineering, Roofs.

.51 Wooden.
.52 Masonry.
.53 Glass.
.54 Metallic.
.55 Windows. Openings in Roofs.
.56 Roof Decoration. Cresting, Repoussé work, Colored Tiles, etc. See 695.3.
.57 Spires and Domes.
.58 Gables. See also 721.28, Gable Walls.
.59 Other forms of Roofs.

.6 Floors and Flooring.

.61 Wooden. Construction and Coverings.
.62 Stone. " "
.63 Brick and Hollow Tile. " "
.64 Metallic. Compound. " "
.65 Composite. " "
.66 Parquetry. Coverings only.
.67 Mosaics. "
.68 Tiles. See 695.3, Roofing Tile.
.69 Other Coverings.

.7 Ceilings.

.71 Wooden.
.72 Stone.
.73 Brick or Tiles with Iron.
.74 Metallic.
.75 Concrete. Plaster.
.76
.77
.78
.79

For vaulted ceilings, see 721.4 and 729.34.

.8 Doors. Gates. Grilles. Windows.

.81 Doors, Wooden.
.82 Doors, Metallic.
.83 Doors, Sash, Lattice, Screen, etc.
.84 Windows, External.
.85 Windows, Internal.
.86 Enclosures of Doors and Windows.
Architraves. Pilasters. Jambs. Pediments. Lintels, etc.
.87 Shutters. Blinds. Screens. Grilles.
.88 Fastenings. Locks.
.89 Other details.

.9 Iron and Composite Structures.

For Strength of Material, see Engineering, 620.1.

.91 Cast Iron.
.92 Wrought Iron.
.93 Steel.
.94 Composite.
.95 Iron and Wood.
.96 Iron and Stone.
.97 Iron and Brick, Tile, Terra Cotta.
.98 Iron and Glass.
.99 Wood and Glass.

722 Ancient and Oriental Architecture. (Pagan.)

See also 571.8, Prehistoric Dwellings.

- .1 **Chinese. Japanese.**
- .2 **Egyptian.**
- .3 **Phenician. Tyrian. Jewish. Carthaginian. Cypriote.**
- .4 **Indian (Asiatic).**
  Hindoo, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian.
- .5 **Chaldean. Assyrian. Babylonian. Ancient Persian. Sassanian.**
- .6 **Pelasgian. Etruscan.**
- .7 **Roman.** See 729.32 for Roman Orders.
- .8 **Grecian.** See 729.32 for Greek Orders.
- .9 **Other. Aztec. Peruvian. Maya. Yucatan, etc.**

723 Mediæval. (Christian. Mohammedan.)

- .1 **Early Christian.**
- .2 **Byzantine. Armenian. Russian.**
- .3 **Mohammedan. Saracenic, Moorish, Persian, Turkish, Indian.** For Ancient Indian see 722.4.
- .4 **Romanesque.**
  - .41 Scotch. Irish.
  - .42 English. Saxon. Norman.
  - .43 German. Austrian.
  - .44 French. Provençal. Norman. Angevin.
  - .45 Italian. Sicilian Norman.
  - .46 Spanish. Portuguese.
  - .47
  - .48 Danish. Swedish. Norwegian.
  - .49 Minor Countries.
- .5 **Gothic or Pointed.** Divided like 723.4.

724 Modern.

All the sub-sections of 724 are subdivided geographically like 940–999.

- .1 **Renaissance.**
- .2 **Grecian Revival.**
- .3 **Gothic Revival.**
- .4 **Victorian Gothic. Tudor.**
- .5 **Queen Anne.**
- .6 **Néo-Grec.**
- .7 **Swiss. Timber.**
- .8 **Romanesque Revival.**
- .9 **Other Styles.**

725 Public Buildings.

- .1 **Administrative. Governmental.**
  - .11 Capitols. Houses of Parliament.
  - .12 Ministries of War, State, etc.
  - .13 City and Town Halls. Bureaus. Public Offices.
  - .14 Custom Houses. Bonded Warehouses. Excise Offices.
  - .15 Court Houses. Record Offices.
  - .16 Post Offices, General and Special.
  - .17 Official Residences. Palaces of Rulers.
  - .18 Barracks. Armories. Police Stations.
  - .19 Engine Houses. Fire Alarm Stations.
- .2 **Business and Commercial.**
  - .21 Stores, Wholesale and Retail.
  - .22 Mixed Store, Office, and Apartment Buildings.
  - .23 Office Buildings. Telegraph. Insurance.
  - .24 Banks. Safe Deposit. Savings.
  - .25 Exchanges. Boards of Trade.
  - .26 Markets.
  - .27 Cattle Markets. Stock Yards.
  - .28 Abattoirs.
  - .29 Other Business Buildings.
- .3 **Transportation and Storage.**
  - .31 Railway Passenger Stations.
    - .311 Small (country) Stations.
    - .312 Large (city) "
    - .313 Union "
    - .314 Stations on two levels.
    - .315
    - .316
    - .317 Street-car Stations.
    - .318 Elevated R. R. Stations.
    - .319 Underground R. R. Stations.
  - .32 Railway Freight Houses.
  - .33 Railway Shops, Round Houses, Car Houses, Tanks, Stores.
  - .34 Dock Buildings. Wharf Boats and Houses.
  - .35 Warehouses. Cold Storage. Safe Deposit Storage.
  - .36 Elevators, Grain.
  - .37
  - .38
  - .39 Other.
- .4 **Manufactories.**
  - .41 Textile Factories or Mills. Wool, Cotton, Silk.
  - .42 Breweries. Malteries. Distilleries.
  - .43 Foundries. Machine Shops. Iron and Steel Works.
  - .44 Wood-working Mills. Furniture Factories
  - .45 Carriage and Car Factories.
  - .46 Paper Mills.
  - .47 Mills for Flour, Meal, Feed, etc.
  - .48 Pottery, Glass, Terracotta, Brick Works.
  - .49 Other Manufactories.

725.5 **Hospitals and Asylums.** See also 725.6. Reformatories.

.51 Sick and Wounded. Eye and Ear. Incurables. Lying-in.
.52 Insane.
.53 Idiotic. Feeble-minded.
.54 Blind. Deaf and Dumb.
.55 Paupers. Almshouses.
.56 Aged.
.57 Children. Orphans.
.58 Foundling.
.59 Soldiers' Homes.

.6 **Prisons and Reformatories.**

.61 State Prisons. Penitentiaries.
.62 Jails. Cell Houses.
.63 Reformatories for Adults. Houses of Correction.
.64 Reform Schools.
.65 Washingtonian Homes. Inebriate Asylums.
.66

.7 **Refreshment. Baths. Parks.**

.71 Cafés. Restaurants.
.72 Saloons.
.73 Baths; Warm, Medicated, Turkish, Russian.
.74 Swimming Baths.
.75 Buildings for Watering Places, Spas, etc.
.76 Buildings for Parks.

.8 **Recreation.**

.81 Music Halls.
.82 Theatres. Opera Houses.
.83 Halls for Lectures, Readings, etc.
.84 Bowling Alleys. Billiard Saloons.
.85 Gymnasiums. Turn Halls.
.86 Skating Rinks. Bicycle Rinks.
.87 Boat Houses.
.88 Riding Halls and Schools.
.89 Shooting Galleries.

.9 **Other Public Buildings.**

.91 Exhibition Halls.
.92 Temporary Halls. Tabernacles. Wigwams.
.93 Workingmen's Clubs and Institutes.
.94

726 Ecclesiastical and Religious.

.1 **Temples.**
.2 **Mosques.**
.3 **Synagogues.**
.4 **Chapels. Sunday-school Buildings.**
.5 **Churches.**
.6 **Cathedrals.**
.7 **Monasteries. Convents. Abbeys.**
.8 **Mortuary. Cemetery Chapels. Receiving Vaults. Tombs**
.9 **Other. Y. M. C. A., etc.**

727 Educational and Scientific.

.1 **Schools.**
Study and Recitation Rooms. Not including dormitory or boarding.
.2 **Academies. Seminaries. Boarding Schools.**
.3 **Colleges. Universities.**
.4 **Professional and Technical Schools. Law, Theology, etc.**
.5 **Laboratories; Physical, Chemical** see 542.1, **Biological, etc. Zoölogical and Botanic Gardens** see also 590.7 and 580.7.
.6 **Museums. Herbariums** see 580.7.
.7 **Art Galleries. Studios.**
.8 **Libraries.** See 022, Library Buildings.
.9 **Other. Learned Societies, etc.**

728 Residences.

.1 **Tenement Houses.**
.11 City Homes of Poor.
.12 Country "
.13 Cités Ouvrières.
.2 **Apartment Houses. Flats. Family Hotels.**
.3 **City Houses. Mansions. Palaces.**
.31 Between party-walls. Stone.
.32 " " Brick.
.33 " " Partly wood.
.34 Semi-detached, including end houses in city blocks. Stone.
.35 " " " Brick.
.36 " " " Partly wood.
.37 Detached. Stone.
.38 " Brick.
.39 " Partly wood.
.4 **Club Houses. Buildings for Secret Societies.**
.5 **Hotels. Inns.**
.51 City Hotels.
.52 Summer Resorts.
.53 Country Inns.
.6 **Village and Country Homes.**
.61 Village Dwellings. On small lots.
.62 Stone.
.63 Brick.
.64 Concrete or stucco.
.65 Part masonry, part wood.
.66 All wood.
.67 Farm Houses.
.68 Laborers' Cottages.
.7 **Seaside and Mountain Cottages. Chalets.**
.8 **Country Seats.**
.81 Castles.
.82 Chateaux.
.83 Manor Houses.
.84 Villas.

728.9 **Out-Buildings.**

.91 Porter's Lodges.
.92 Servants' Quarters.
.93 Kitchens and Laundries.
.94 Stables. Carriage Houses.
.95 Barns. Granaries.
.96 Dairies.
.97 Ice Houses.
.98 Conservatories. Green Houses. Graperies.
.99 Other.

729 Architectural Design and Decoration.

.1 **The Elevation.**

.11 Composition.
.12 Distribution.
.13 Proportion.
.14 Light and Shade.
.15 Perspective effect.
.16
.17
.18
.19

For projection of shadows and graphics of light and shadow see 515.63 and 515.7.

.2 **The Plan.**

.21 Elements required.
.22 Distribution.
.23 Proportion.
.24
.25
.26
.27
.28
.29

.3 **Elementary Forms.** For construction of these forms see 721.

.31 Walls. Mouldings. Cornices.
.32 Piers, Columns, Pilasters, Pedestals and the Orders. Colonnades.
.33 Arches and Arcades.
.34 Vaults and Domes.
.35 Roofs. Spires. Dormers.
.36 Towers.
.37 Gables and Pediments.
.38 Doors and Windows. Bays. Oriels.
.39 Stairs and Balustrades. See also 515.83, Stereotomy; 694.8, Building.

.4 **Painted Decoration.**

See also 729.7. Mosaic.

.41 Vegetable forms.
.42 Animal forms.
.43 Grotesque forms.
.44 Conventional and Geometric Forms.
.45 Painted Moldings.
.46 Painted Friezes and Panels.
.47 Painted Columns and Pilasters.
.48 Painted Ceilings and Vaults.
.49 Painted Walls.

729.5 **Decoration in Relief.** For Bas Relief and Figure Carving see 730.

.51 Vegetable forms.
.52 Animal forms.
.53 Grotesque forms.
.54 Conventional and Geometric forms.
.55 Carved Moldings.
.56 Carved Friezes and Panels.
.57 Carved Columns and Pilasters.
.58 Carved Ceilings and Vaults.
.59 Other Carved Ornament.

.6 **Incrustation and Veneering.**

.61 Of External Walls (in brick, stone, or marble, tiles, etc.).
.62 Of Interiors.
.63 Intarsia and Inlay.
.64 Niello-work.
.65 Enamel Decoration.
.66
.67
.68
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.7 **Mosaic.**

.71 Mosaic Ceilings.
.72 Mosaic Walls.
.73 Mosaic Floors.
.74 Other Mosaic designs.
.75
.76
.77
.78
.79

.8 **Stained Glass Design.** For technical processes see 666.1; for history see 748

.81 Geometric Windows.
.82 Medallion Windows.
.83 Canopy Windows.
.84 Figure Windows.
.85 Mosaic Windows.
.86 Other kinds of stained glass.
.87
.88
.89

.9 **Architectural Accessories and Fixed Furniture.**

.91 Altars.
.92 Pulpits. Tribunes.
.93 Dais. Thrones.
.94 Buffets.
.95 Mantels. Overmantels.
.96 Screens. Rood Screen. Reredos.
.97
.98
.99

730 Sculpture.

731 Materials and Methods.

732 Ancient.

733 Greek and Roman.

734 Medieval.

735 Modern.

736 .1 Carving. .2 Seals. .3 Dies. .4 Gems. .5 Cameos.

737 Numismatics. Coins. Medals.

738 Pottery. Porcelain.

739 Bronzes. Brasses. Bric-a-brac.

740 Drawing. Decoration. Design.

741 Free-hand. Crayon. Sketching from Nature. Caricatures. Cartoons.

Collections on any subject go with that subject with reference from 741.

742 Perspective. See also 515.6.

743 Art Anatomy. Life School.

744 Mathematical and Scientific Drawing. See 515.

745 Ornamental Design. Woven Fabrics. Carpets. Wall Paper, etc.

746 Art Needlework. Fancy Work.

747 Interior Decoration. Distemper. Fresco. Polychrome.

748 Stained and Iridescent Glass. For Leading, see 698.5.

749 Artistic Furniture. Fireplaces. Frames, etc.

750 Painting.

751 Materials and Methods.

752 Color. See 535.6, Optics.

753 Epic. Mythic. Idealistic. See 759.3, German School.

754 Genre. Still Life. See 759.4, French; and 759.9, Belgian.

755 Religious. Ecclesiastic. See 759.5, Italian; and 759.6, Spanish.

756 Historical. Battle Scenes.

757 Portrait.

758 Landscape and Marine. Animals. Flowers.

759 Various Schools of Painting.

1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other Schools.

760 Engraving.

761 Wood.

762 Copper and Steel

763 Lithography.

764 Chromolithography.

765 Line and Stipple.

766 Mezzotint and Aquatint.

767 Etching. Dry Point.

768 Bank Note and Machine.

769 Collections of Engravings.

770 Photography.

771 Materials. Photographic Chemistry.

772 Silver Processes. Daguerreotype. Talbotype. Collodion Process. Ambrotype, etc. Dry-Plate Processes.

773 Gelatine and Pigment Processes. Woodburytype. Carbon Process. Lambertype. Autotype, etc.

774 Gelatine and Printer's Ink Processes. Albertype. Heliotype. Artotype, etc.

775 Photo-lithography, etc.

776 Photo-zincography, etc.

777 Photo-engraving and Photo-electrotyping.

778 Special Applications. See 522.63, Astronomy. See 578, Microscopy.

779 Collections of Photographs.

780 Music.

.1, Philosophy and Æsthetics of Music; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Conservatories; .8, Polygraphy, Libraries; .9, History, divided by countries, like 930–999. All heads include both the music itself and everything about it: Score, Libretto, History, Criticism, etc.

781 Theory of Music.

.1 Mathematical and Physical.

.2 Elementary and General.

.3 Harmony. Thoroughbass

.4 Counterpoint.

.5 Musical Form.

.6 Composition and Instrumentation.

.7 Oriental Theories and Forms. Russian Music.

.8 Ancient Grecian Theories, Modes, and Forms.

.9

782 Dramatic Music.

.1 Grand Opera.

.2 Epic. Wagnerian.

.3 Other German Grand Opera.

.4 French Grand Opera.

.5 Italian Grand Opera.

.6 Comic and Satirical.

.7 Opera Bouffe.

.8 Operettas and Cantatas. See 783.4.

.9 Pantomimes. Masks, etc.

783 Sacred Music. See 245, Hymnology, Sacred Poetry for hymns alone; if with tunes they go in 783.9; 786.8, Organ; 246.7–8, Evangelistic use and Eucharistic music; 264.2, Public Worship.

.1 Organ and Orchestral. Accompaniment.

.2 Cathedral Services. Masses. Vespers, etc.

.21, Mass. Communion Services; .22, Common of the Mass; Kyrie, Gloria in Excelsis, Credo, Benedictus, Agnus Dei; .23, Proper of the Season; Offertory, Sequence, Gradual, Tract; .24, Choral Service; Antiphonal, Responsive; .25, Plain Song; .26, Litanies; .27, Lenten and Penitential; Good Friday, "Reproaches"; .28, Festival; Christmas, Easter, etc.; .29, Processional. Recessional.

.3 Oratorio. Passion Music.

.4 Anthem. Motet. Sacred Cantata. Polyphonic School, Palestrina. 16th Century.

.5 Chant. Gregorian. Anglican.

.6 Chorale. Tune. Carol.

.7 Evangelistic. Mission. Revival. Sunday School.

.8 Choir. Men and Boys. Quartet. Chorus.

.9 Congregational Singing. Psalmody. Hymnody.

784 Vocal Music.

.1 Glee. Madrigal. Round. Catch.

.2 Aria. Cavatina. Recitative. e. g. in Oratorio, Mass, Opera.

.3 Ballad and Song. Romantic. Idyllic. Sentimental. e. g. Modern German.

.4 Popular Ballads. Volkslied. e. g. Irish, Scotch, etc.

.5 Festival. e. g. Sængerbund. Eisteddfod. Competitive.

.6 College, Society Songs, and Choruses.

.7 Negro Minstrelsy. Plantation Songs.

.8 Collected Songs.

.81, Solos; .82, Duets; .83, Trios; .84, Quartets; .85, Other Part Songs; .86, Choruses; .87, Collections for Male Voices; .88, Collections for Female Voices; .89, Other Special Collections.

.9 Vocal Hygiene, Culture, Development, and Methods. Tonic-Sol-Fa.

785 Orchestral Music. For Dramatic Orchestral Music, see 782; Sacred, 783.1.

.1 Symphony. Three or more movements; e. g. Adagio, Andante, Allegro, Allegretto, Scherzo, Finale, etc.

.2 Dramatic, Illustrative, Descriptive, Imitative.
e. g. Mendelssohn's Mid-Summer Night's Dream.

.3 Romantic. Idyllic.

.4 Program Music.

.5 Overture. e. g. Beethoven's "Leonores."

.6 Concerto. Orchestral with Solo Instrument.

.7 Chamber Music.

.8 Suite.

.9 Arrangements. Transcriptions. Pot Pourris.

786 Piano and Organ.

.1 Piano. History.

.2 Manufacture. Tuning. Temperament.

.3 Instruction.

.4 Piano Music. General Collections. For Piano Concerto, see 785.6.

.41 Sonata. Sonatina. Rondo.

.42 Fantasia. Arabesque.

.43 Nocturne. Meditation. Songs without Words. Romantic. Descriptive.

.44 March and March-form. Polonaise. Polka. Mazourka.

.45 Dance-form. National. Classical. Idealized.

.46 Modern Dance Music. Society. Festive.

.47 Etudes. Artistic. For Etudes for Instruction, see 786.3.

.48 Variations. Transcriptions.

.49 Arrangements. Four Hands and more. e. g. Orchestral Music arranged for Piano.

786.5 Organ. History.

.6 Building.

.7 Instruction.

.8 Organ Music. See 783, Sacred Music.

.81 Sonata. .82 Fugue. .83 Preludes. .84 Interludes. .85 Postludes. .86 Offertories. .87 Voluntaries. Improvisation. .88 Organ and Piano. .89 Organ, Piano, and Orchestra.

.9 Cabinet Organ. Melodeon.

787 Stringed Instruments.

Including with each, History, Manufacture, Instruction, Music, etc. Music for two instruments is put with the one most prominent in the composition.

Bowed.

.1 Violin.

.2 Viola.

.3 Violoncello.

.4 Double Bass. Contra Bass.

Plectral.

.5 Harp.

.6 Guitar. Lute. Mandolin, etc.

.7 Banjo.

.8 Zither.

.9 Other Stringed Instruments. Harpsichord.

788 Wind Instruments.

Including with each, History, Manufacture, Instruction, Music, etc.

Brass.

.1 Trumpet. Slide and Valve.

.2 Trombone.

.3 Cornet.

.4 Horns and other Brass Wind Instruments.

.41 French Horn.

.42 Saxhorn.

.43 Saxophone.

.44 Euphonium.

.45 Ophicleide.

.46 Key Bugle.

.47 Valve Bugle.

.48 Bass. Tuba and Contrabass Tuba. Serpent.

.49 Other.

Wood. Flute Group.

.5 Flute. Waldflute. Piccolo. Fife. Flageolet.

Wood. Reed Group.

.6 Clarinet. Bass Clarinet. Bassethorn.

.7 Oboe. D'amore. Da Caccia. Cor Anglais.

.8 Bassoon. Double Bassoon. Bombardon.

.9 Other Reed Wind Instruments. Bagpipe.

789 Percussion and Mechanical Instruments.

Percussion.

.1 Drum.
.2 Cymbals.
.3 Triangle.
.4 Tambourine. Castanets. Bones.
.5 Bells. Chimes. Carillon.
.6 Other Percussion Instruments. Xylophone,

Mechanical.

.7 Orchestrion.
.8 Music Box.
.9 Other Mechanical Instruments.

790 Amusements.

For Ethics of amusements, see 175.

791 Public Entertainment.

Concert, Panorama, Circus, Menagerie, Summer Resort, Garden, Rink, Museum, Fair Festival.

792 Theater. Pantomime. Opera. See also 782, Dramatic music.

793 In-door Amusements.

Private Theatricals, Tableaux, Charades, Dancing.

794 Games of Skill.

Chess, Checkers, Billiards, Bowling, Bagatelle.

795 Games of Chance.

Cards, Dice, Backgammon, Dominoes.

796 Out-door Sports.

Children's Sports, Athletic Sports, Coasting, Skating, Cycling, Quoits, Archery, Croquet, Lawn Tennis.

797 Boating and Ball.

Rowing, Yachting, Base-ball, Foot-ball, Cricket, Polo.

798 Horsemanship and Racing.

799 Fishing, Hunting, Target Shooting.

Literature.

The classification of literature is by *language* not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assigned to individual authors include only their *literary* works of that section and complete works which cannot be divided. Books on other subjects go with their proper subjects, unless a "special library" attracts all the authors' works, lives, etc. An author writing in two periods has all his books put in the one where most of them belong.

800 Literature. General Works.

801 Philosophy. Theories. Literary Æsthetics.

802 Compends. Outlines.

803 Dictionaries. Cyclopedias.

804 Essays. Lectures. Addresses.

805 Periodicals. Magazines. Reviews.

806 Societies. Transactions. Reports, etc.

807 Study and Teaching of Literature.

808 Rhetoric. Treatises. Collections.

Divided .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; see also 784.9, Vocal Culture; .6, Letters, Epistolography; .7, Satire, Humor; .8, Collections too general to go with any one language, e. g. a book of Quotations from many languages. These heads, and the same under 809, include only works about Poetry, etc., regardless of language.

809 History of Literature in general. Including general histories of books and knowledge; e. g. Hallam's Literature of Middle ages.

Divided like 808. .1, Poetry; .2, Drama; .3, Fiction, etc.

810 American Literature.

Includes Canadian English.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on American Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of American Literature.

811 American Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; 09, History of American Poetry.

.1 **Colonial, 1607–1776.**

.11	Sandys, George	1577–1644.
.12	Bradstreet, Anne	1612–1672.
.13	Wigglesworth, Michael	1631–1705.
.14	Green, Joseph	1706–1780.
.15	Livingston, William	1723–1790.
.16	Ferguson, Elizabeth	1739–1801.

.2 **Post-Revolutionary, 1776–1830.**

.21	Trumbull, John	1750–1831.
.22	Dwight, Timothy	1752–1817.
.23	Barlow, Joel	1755–1812.
.24	Freneau, Philip	1752–1832.
.25	Alsop, Richard	1761–1841.
.26	Pierpont, John	1785–1866.
.27	Dana, Richard Henry	1787–1879.
.28	Sprague, Charles	1791–1875.
.29	Minor Poets.	

811.3 **Middle 19th Century, 1830–1861.**

.31	Halleck, Fitz-Greene	1790–1867.
.32	Poe, Edgar Allan	1809–1849.
.33	**Bryant, William Cullen**	1794–1878.
.34	**Longfellow, Henry Wadsworth**	1807–1882.
.35	Read, Thomas Buchanan	1822–1872.
.36	**Whittier, John Greenleaf**	1807–1892.
.37	**Lowell, James Russell**	1819–1891.
.38	Whitman, Walt	1819–1892.
.39		

.4 **Later 19th Century, 1861–**

.41	Stoddard, Richard Henry	1825–
.42	Hayne, Paul Hamilton	1831–1886.
.43	Stedman, Edmund Clarence	1833–
.44	Winter, William	1836–
.45	**Miller, Cincinnatus Hiner, (Joaquin.)**	**1841–**
.46	Taylor, Bayard	1825–1878.
.47		
.48		
.49		

812 American Drama.

.1 **Colonial, 1607–1776.**

.11	Warren, Mercy	1728–1814.
.12	Godfrey, Thomas	1736–1763.
.13		

.2 **Post-Revolutionary, 1776–1830.**

.21	Tyler, Royall	1757–1826.
.22	Dunlap, William	1766–1839.
.23	Hillhouse, James Abraham	1789–1841.
.24	Ingersoll, Charles Jared	1782–1862.
.25		

.3 **Middle 19th Century, 1830–1861.**

.31	Ritchie, Anna Cora Mowatt	1818–1870.
.32	Mathews, Cornelius	1817–1889.
.33	Boker, George Henry	1823–1890.
.34		

.4 **Later 19th Century, 1861–**

.41

813 American Fiction.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Brackenridge, Hugh Henry	1748–1816.
.22	Rowson, Susanna	1762–1824.
.23	Brown, Charles Brockden	1771–1810.
.24	**Cooper, James Fenimore**	1789–1851.
.25	Ware, William	1797–1852.
.26	Neal, John	1793–1876
.27		
.28		
.29		

813.3 **Middle 19th Century, 1830–1861.**

.31	Thompson, Daniel Pierce	1795–1868.
.32	Kennedy, John Pendleton	1795–1870.
.33	**Hawthorne, Nathaniel**	1804–1864.
.34	Judd, Sylvester	1813–1853.
.35	Simms, William Gilmore	1806–1870.
.36	Melville, Herman	1819–1891.
.37	Stowe, Harriet Beecher	1812–
.38		
.39		

.4 **Later 19th Century, 1861–**

.41	Alcott, Louisa May	1832–1888.
.42	Eggleston, Edward	1837–
.43	Howells, William Dean	1837–
.44	Aldrich, Thomas Bailey	1836–
.45	Harte, Francis Bret	1839–
.46	James, Henry	1843–
.47	Hawthorne, Julian	1846–
.48	Burnett, Frances Hodgson	1849–
.49	Minor Novelists.	

814 American Essays.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Rush, Benjamin	1745–1813.
.22	Webster, Noah	1758–1843.
.23	Channing, William Ellery	1780–1842.

.3 **Middle 19th Century, 1830–1861.**

.31	Ossoli, Margaret Fuller	1810–1850.	
.32	Giles, Henry	1809–1882.	
.33	Tuckerman, Henry Theodore	1813–1871.	
.34	**Holland, Josiah Gilbert**	1819–1881.	
.35	Whipple, Edwin Percy	1819–1886.	
.36	Emerson, Ralph Waldo	1803–1882.	See also 191.3.
.37	Curtis, George William	1824–1892	

.4 **Later 19th Century, 1861–**

.41	Burroughs, John	**1837–**
.42		
.43		
.44		

815 American Oratory.

.1 **Colonial, 1607–1776.**

11

.12

.2 **Post-Revolutionary, 1776–1830.**

.21	Hamilton, Alexander	1757–1804.
.22	Ames, Fisher	1758–1808.
.23	Wirt, William	1772–1834.
.24	Randolph, John	1773–1833.
.25	Clay, Henry	1777–1852.
.26	Calhoun, John Caldwell	1782–1850.
.27	Webster, Daniel	1782–1852.
.28		
.29		

815.3 **Middle 19th Century, 1830–1861.**

.31	Everett, Edward.	1794–1865.
.32	Choate, Rufus.	1799–1859.
.33	Sumner, Charles.	1811–1874.
.34	Phillips, Wendell.	1811–1884.
.35	Chapin, Edwin Hubbell.	1814–1880.
.36	Beecher, Henry Ward.	1813–1887.

.4 **Later 19th Century, 1861–**

.41

.42

.43

816 American Letters.

Subdivided by periods, like 811.

817 American Satire and Humor.

.1 **Colonial, 1607–1776.**

.11	Ward, Nathaniel.	1570–1653.
.12	Alsop, George.	1638– ?
.13	Byles, Mather.	1706–1788.
.14	Hopkinson, Francis.	1737–1791.
.15	Peters, Samuel Andrew.	1735–1826.

.2 **Post-Revolutionary, 1776–1830.**

.21	Story, Isaac.	1774–1803.
.22	Fessenden, Thomas Green.	1771–1837.
.23	Paulding, James Kirke.	1779–1860.
.24	**Irving, Washington.**	1783–1859.
.25	Verplanck, Gulian Crommelin.	1786–1870.

.26

.27

.3 **Middle 19th Century, 1830–1861.**

.31	Neal, Joseph Clay.	1807–1847.
.32	**Holmes, Oliver Wendell.**	1809–
.33	Shelton, Frederick William.	1814–1881.
.34	Shillaber, B. P. (Mrs. Partington.)	1814-1890.
.35	Saxe, John Godfrey.	1816–1887.
.36	Cozzens, Frederick Swartout.	1818–1869.
.37	Browne, C. F., (Artemus Ward.)	1834–1867.
.38	Haliburton, Thomas Chandler.	1796–1865.
.39	Minor Satirists and Humorists.	

.4 **Later 19th Century, 1861–**

.41	Warner, Charles Dudley.	1829–
.42	Locke, David Ross, (Nasby.)	1833–1888.
.43	Burdette, Robert J.	1844–
.44	Clemens, S. L., (Mark Twain.)	1835–
.45	Carleton, William.	1845–
.46	Shaw, Henry W., (Josh Billings.)	1818–1885.

.47

818 American Miscellany.

.3 **Middle 19th Century, 1830–1861.**

.31	Thoreau, Henry David.	1817–1862.
.32	Mitchell, Donald Grant, (Ik Marvel.)	1822–

820 English Literature.

820.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on English Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

821 English Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; .09, History of English Poetry.

.1 **Early English, 1066–1400.**

.11	Layamon	1150–1207.
.12	Ormin	1187–1237.
.13	Robert of Gloucester	1245–1307.
.14	Minot, Lawrence	1313–1352.
.15	Langland, William	1332–1399.
.16	Barbour, John	1316–1395.
.17	**Chaucer, Geoffrey**	1340–1400.
.18	Gower, John	1325–1408.
.19	Minor Writers.	

.2 **Pre-Elizabethan, 1400–1558.**

.21	Lydgate, John	1369–1461.
.22	Skelton, John	1460–1529.
.23	Dunbar, William	1460–1520.
.24	Douglas, Gavin	1474–1522.
.25	Hawes, Stephen	1483–1509.
.26	Lyndsay, Sir David	1490–1555.
.27	Wyatt, Sir Thomas	1503–1542.
.28	Surrey, Henry Howard, earl of	1517–1547.
.29	Minor Writers.	

.3 **Elizabethan, 1558–1625.**

.31	**Spenser, Edmund**	1553–1599.
.32	Sidney, Sir Philip	1554–1586.
.33	Daniel, Samuel	1562–1619.
.34	Drayton, Michael	1563–1631.
.35	Davies, John	1569–1626.
.36	Drummond, William	1585–1649.
.37	Fletcher, Giles and Phineas	1585–1650.
.38	Herbert, George	1593–1632.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625–1702.**

.41	Suckling, Sir John	1609–164..
.42	Crashaw, Richard	1616–1650.
.43	Herrick, Robert	1591–1674.
.44	Waller, Edmund	1605–1687.
.45	Lovelace, Richard	1618–1658.
.46	Cowley, Abraham	1618–1667.
.47	**Milton, John**	1608–1674.
.48	**Dryden, John**	1631–1700.
.49	Minor Writers.	

821.5 **Queen Anne,** Early 18th Century, **1702–1745.**

.51	Prior, Matthew	1664–1721.	
.52	Parnell, Thomas	1679–1717.	
.53	**Pope, Alexander**	1688–1744.	See also 827.5[c].
.54	Ramsay, Allan	1686–1758.	
.55	Young, Edward	1684–1765.	
.56	Thomson, James	1700–1748.	
.57	Collins, William	1721–1759.	
.58	Shenstone, William	1714–1763.	
.59	Minor Writers.		

.6 **Later 18th Century,** Pre-Revolutionary, **1745–1800.**

.61	Gray, Thomas	1716–1771.	
.62	Akenside, Mark	1721–1770.	
.63	Chatterton, Thomas	1752–1770.	
.64	Goldsmith, Oliver	1728–1774.	See also 823.64 and 824.66.
.65	Cowper, William	1731–1800.	
.66	Macpherson, James	1738–1796.	
.67	**Burns, Robert**	1759–1796.	
.68	White, Henry Kirke	1785–1806.	
.69	Minor Writers.		

.7 **Early 19th Century,** Post-Revolutionary, **1800–1837.**

.71	Wordsworth, William	1770–1850.	
.72	Coleridge, Samuel Taylor	1772–1834.	
.73	Southey, Robert	1774–1843.	
.74	Scott, Sir Walter	1771–1832.	See also 823.73.
.75	Moore, Thomas	1779–1852.	
.76	Byron, Geo. Gordon Noel	1788–1824.	
.77	Shelley, Percy Bysshe	1792–1822.	
.78	Keats, John	1795–1821.	
.79	Minor Writers.		

.8 **Victorian Period,** 1837–

.81	Tennyson, Alfred	1809–1892.
.82	Browning, Elizabeth Barrett	1809–1861.
.83	Browning, Robert	1812–1889.
.84	Rossetti, Dante Gabriel	1828–1882
.85	Morris, William	1834–
.86	Swinburne, Algernon Charles	1837–
.87		
.88		
.89	Minor Writers.	

822 English Drama.

.1 **Early English, 1066–1400.**

.11	Chester Plays.	
.12	Coventry Plays.	
.13	Townley Plays.	

.2 **Pre-Elizabethan, 1400–1558.**

.21	Heywood, John	1506–1565.
.22	Udall, Nicholas	1505–1564.
.23	Bale, John	1495–1563.

.3 **Elizabethan, 1558–1625.**

.31	Greene, Robert	1561–1592.
.32	Marlowe, Christopher	1564–1593.
.33	**Shakspere, William**	1564–1616.
.34	**Jonson, Ben**	1574–1637.
.35	**Beaumont, Francis and Fletcher, John**	1576–1625.
.36	Webster, John	1582–1652.
.37	Massinger, Philip	1584–1640.
.38	Ford, John	1586–1639.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625–1702.**

.41	Davenant, Sir William	1605–1668.
.42	Etherege, Sir George	1637–1688.
.43	Crowne, John	1644–1699.
.44	Wycherly, William	1640–1715.
.45	Otway, Thomas	1651–1685.
.46	**Congreve, William**	1670–1729.
.47	Vanbrugh, Sir John	1666–1726.
.48	Farquhar, George	1678–1707.
.49	Minor Writers.	

.5 **Queen Anne,** Early 18th Century, **1702–1745.**

.51	Dennis, John	1657–1734.
.52	Southerne, Thomas	1660–1746.
.53	Centlivre, Mrs. Susannah (Freeman)	1668–1723.
.54	Cibber, Colley	1671–1757.
.55	Rowe, Nicholas	1674–1718.
.56	Gay, John	1688–1732.
.57	Lillo, George	1693–1739.
.58		
.59	Minor Writers.	

.6 **Later 18th Century, 1745–1800.**

.61	Garrick, David	1716–1779.	
.62	Foote, Samuel	1721–1777.	
.63	Colman, George, the elder	1732–1794.	
.64	Home, John	1724–1808.	
.65	Cumberland, Richard	1732–1811.	
.66	**Sheridan, Richard Brinsley**	1751–1816.	See also 825.64.
.67	Inchbald, Mrs. Elizabeth (Simpson)	1753–1821.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Baillie, Joanna	1762–1851.
.72	Knowles, James Sheridan	1784–1862.

.8 **Victorian Period, 1837–**

823 English Fiction.

.1 **Early English, 1066–1400.**

.2 **Pre-Elizabethan,** (More's Utopia,) **1400–1558.**

.3 **Elizabethan,** (Lyly's Euphues,) **1558–1625.**

.4 **Post-Elizabethan, 1625–1702.**

.41	Harrington, James	1611–1677.	
.42	**Bunyan, John**	1628–1688.	
.43	Mackenzie, George	1636–1691.	
.44	Behn, Aphra	1640–1689.	

.5 **Queen Anne, 1702–1745.**

.51	DeFoe, Daniel	1661–1731.	
.52	Fielding, Henry	1707–1754.	

.6 **Later 18th Century, 1745–1800.**

.61	Richardson, Samuel	1689–1761.	
.62	Sterne, Laurence	1713–1768.	
.63	Smollett, Tobias George	1721–1771.	
.64	**Goldsmith, Oliver**	1728–1774.	See also 821.64 and 824.66.
.65	Mackenzie, Henry	1745–1831.	
.66	Arblay, Frances (Burney), madame d'	1752–1840.	
.67			
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Lewis, Matthew Gregory	1775–1818.	
.72	Edgeworth, Maria	1767–1849.	
.73	**Scott, Sir Walter**	1771–1832.	See also 821.74.
.74	Austen, Jane	1775–1817.	
.75	Porter, Jane	1776–1850.	
.76	Peacock, Thomas Love	1785–1866	
.77	Galt, John	1779–1839.	
.78	Marryat, Frederick	1792–1848.	
.79	Minor Writers.		

.8 **Victorian Period, 1837–**

.81	Bronté, Charlotte	1816–1855.	
.82	**Thackeray, William Makepeace**	1811–1863.	
.83	**Dickens, Charles**	1812–1870.	
.84	Lytton, Edw. Geo. Bulwer, 1st baron	1803–1873.	
.85	Kingsley, Charles	1819–1875.	
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–1881.	
.87	Trollope, Anthony	1815–1882.	
.88	**Eliot, George**	1819–1880.	
.89	Minor Writers.		

.91 – from 1900 on

824 English Essays.

.3 **Elizabethan,** (Bacon,) **1558–1625.**

.4 **Post-Elizabethan,** (Locke), **1625–1702.**

.5 **Queen Anne, 1702–1745.**

.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713.	
.52	**Addison, Joseph**	1672–1719.	
.53	Steele, Sir Richard	1671–1729.	
.54	Budgell, Eustace	1686–1737.	
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.6 **Later 18th Century, 1745–1800.**

.61	Moore, Edward	1712–1757.	
.62	Kames, Henry Home, lord	1696–1782.	
.63	**Johnson, Samuel**	1709–1784.	
.64	Hume, David	1711–1776.	See also 192.4.
.65	Hawkesworth, John	1715–1773.	
.66	Goldsmith, Oliver	1728–1774.	See also 821.64 and 823.64.
.67	Gibbon, Edward	1737–1794.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Mackintosh, Sir James	1765–1832.	
.72	Smith, Sydney	1771–1845.	
.73	Jeffrey, Francis, lord	1773–1850.	
.74	Brougham, Henry, 1st baron	1778–1868.	
.75	**Lamb, Charles**	1775–1834.	
.76	Hazlitt, William	1778–1830.	
.77	Hunt, Leigh	1784–1859.	
.78			
.79	Minor Writers.		

.8 **Victorian Period, 1837–.**

.81	De Quincey, Thomas	1785–1859.	
.82	Carlyle, Thomas	1795–1881.	
.83	Macaulay, Thomas Babington, 1st baron	1800–1859.	
.84	Helps, Sir Arthur	1817–1875	
.85	Arnold, Matthew	1822–88	
.86	Ruskin, John	1819–	
.87			
.88			
.89	Minor Writers.		

825 English Oratory. For Speakers see 808.5.

Subdivided by periods like 821.

.6 Later 18th Century, 1745–1800.

.61 Chatham, William Pitt, 1st earl of 1708–1778.
.62 **Burke, Edmund** 1729–1797.
.63 Fox, Charles James 1749–1806.
.64 **Sheridan, Richard Brinsley** 1751–1816. See also 822.66.
.65 Grattan, Henry 1750–1820.
.66 Pitt, William 1759–1806.

826 English Letters.

Subdivided by periods like 821.

.2 Pre-Elizabethan, (Paston Letters,) **1400–1558.**

.5 Queen Anne, 1702–1745.

.51 Montagu, Lady Mary (Pierrepont) Wortley 1690–1762.
.52 Chesterfield, Philip Dormer Stanhope, 4th earl of 1694–1773.
.53

.6 Later 18th Century, 1745–1800.

.61 Orford, Horace Walpole, 4th earl of 1717–1797.
.62 Montagu, Mrs. Elizabeth (Robinson) 1720–1800.

827 English Satire and Humor.

.2 Pre-Elizabethan, 1400–1558.

.21 Barclay, Alexander 1475–1552.

.3 Elizabethan, 1558–1625.

.31 Gascoigne, George 1537–1577.
.32 Harington, Sir John 1561–1612.
.33 Hall, Joseph 1574–1656.
.34 Marston, John 1575–1634.
.35 Donne, John 1573–1631.
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.4 Post-Elizabethan, 1625–1702.

.41 Wither, George 1588–1667.
.42 **Butler, Samuel** 1612–1680
.43 Marvell, Andrew 1620–1678.
.44 D'Urfey, Thomas 1625–1723.
.45 Oldham, John 1653–1683.
.46 Brown, Thomas 1663–1704.
.47 King, William 1663–1712.
.48 Garth, Sir Samuel 1665–1719.
.49 Minor Writers.

827.5 Queen Anne, 1702–1745.

.51 Ward, Edward 1667–1731.
.52 **Swift, Jonathan** 1667–1745.
.53 Mandeville, Bernard de 1670–1733.
.54 Arbuthnot, John 1675–1735.
.55 **Pope, Alexander** 1688–1744. See also 821.53.
.56
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.6 Later 18th Century, 1745–1800.

.61 Churchill, Charles 1733–1765.
.62 Amory, Thomas 1691–1788.
.63 Whitehead, Paul 1710–1774.
.64 Junius 1679–1772.
.65 Wolcott, John 1738–1819.
(pseud. Peter Pindar.)
.66
.67
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.7 Early 19th Century, 1800–1837.

.71 Gifford, William 1757–1826.
.72 Hood, Thomas 1798–1845.
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.8 Victorian, 1837–

.81 Jerrold, Douglas 1803–1857.
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828 English Miscellany.

Anecdotes, Ana, Epigrams, Quotations, etc., if illustrative of any special subject (e. g., biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For Riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon Literature.

.1 Poetry.
.2 Cædmon.
.3 Beowulf.
.4 Cynewulf.
.5 Homilies and Religious.
.6 Ælfric.
.7 Alfred the Great.
.8 Miscellaneous.
.9 Historical and Biographical.

830 German Literature.

830.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on German Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

831 German Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of German Poetry.

.1 Before the Crusades, -1150.

.11 "Hildebrandslied."
.12 Otfried.
.13 "Ludwigslied."
.14 "Muspilli."

.2 Middle High, 1150-1300.

.21 "Nibelungenlied."
.22 "Gudrun," and minor folk epics.
.23 Heinrich von Veldeke -1200. See also 839.311 2.
.24 Wolfram von Eschenbach.
.25 Gottfried von Strassburg.
.26 Hartmann von Aue 1170-1220.
.27 Walther von der Vogelweide 1170-1230.
.28 Ulrich von Lichtenstein 1199-1276.
.29 Minor Writers.

.3 Period of Decline, 1300-1517.

.31 Horneck, Ottokar von.
.32 Hadamar von Laber.
.33 Hermann von Sachsenheim -1458.
.34 Büheler, Hans. "Die sieben weisen Meister," 1414-
.35 Kaspar von der Röhn. "Das Heldenbuch."
.36 "Theuerdank."
.37 "Die Haimonskinder."
.38 Mastersingers.
.39 Minor Writers.

.4 Reformation. New High, 1517-1625.

.41 Agricola, Martin 1486-1556.
.42 Waldis, Burkard 1490-1558.
.43 Alberus, Erasmus 1500-1553.
.44 **Sachs, Hans** 1494-1576.
.45 Ringwaldt, Bartholomäus 1530-1599.
.46 Rollenhagen, Georg 1542-1609.
.47 Andreä, Johann Valentin 1586-1654.

.5 Period of Imitation, 1625-1750.

[The Silesian Schools.]

.51 Opitz von Boberfeld, Martin 1597-1639.
.52 Flemming, Paul 1609-1640.
.53 Logau, Friedrich von 1604-1655.
.54 Gerhardt, Paul 1607-1676.
.55 Hofmannswaldau, Christian Hofmann von 1618-1679.
.56 Zesen, Philipp von 1619-1689.
.57 Brockes, Barthold Heinrich 1680-1747.
.58 Bodmer, Johann Jakob 1698-1783.
.59 Minor Writers.

831.6 Classic Period, 1750-1830.

[For Göthe and Schiller, see 832.6.]

.61 Gellert, Christian Fürchtegott 1715-1769.
.62 **Klopstock, Friedrich Gottlieb** 1724-1803.
.63 Bürger, Gottfried August 1748-1794.
.64 **Herder, Johann Gottfried von** 1744-1803.
65 Voss, Johann Heinrich 1751-1826.
66 Körner, Karl Theodor 1791-1813.
67 Hölderlin, Johann Christian Friedrich 1770-1843.
68 Platen Hallermünde, August, graf von 1796-1835.
.69 Minor Writers.

.7 Post-Classic Period, 1830-1856.

.71 Arndt, Ernst Moritz 1769-1860.
.72 Eichendorff, Joseph, freiherr von 1788-1857.
.73 Uhland, Johann Ludwig 1787-1862.
.74 Rückert, Friedrich 1789-1866.
.75 **Heine, Heinrich** 1799-1856.
.76 Niembsch von Strehlenau, Nikolaus 1802-1850.
.77 Auersperg, Anton Alexander, graf von [Anastasius Grün.] 1806-1881.
.78 Freiligrath, Ferdinand 1810-1876.
.79 Minor Writers.

.8 Later 19th Century, 1856-

.81 Schefer, Leopold 1784-1862.
.82 Kinkel, Johann Gottfried 1815-1882.
.83 Geibel, Emanuel 1815-1884.
.84 Bodenstedt, Friedrich Martin 1819-1892.
.85 Heyse. P.
.86
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.89 Minor Writers.

832 German Drama.

.5 Period of Imitation, 1625-1750.

.51 Gryphius, Andreas 1616-1664.
.52 Lohenstein, Daniel Caspar 1635-1683.
.53 Weise, Christian 1642-1708.
.54 Gottsched, Johann Christoph 1700-1776.
.55 Gottsched, Luise Adelgunde Victorie (Culmus) 1713-1762.

.6 Classic Period, 1750-1830.

.61 **Lessing, Gottlob Ephraim** 1729-1781.
.62 **Göthe, Johann Wolfgang von** 1749-1832.
.63 **Schiller, Johann Christoph Friedrich** 1759-1805.
.64 Klinger, Friedrich Maximilian 1753-1831.
.65 Iffland, August Wilhelm 1759-1814.
.66 Kotzebue, August Friedrich Ferdinand von 1761-1819.
.67 Werner, Friedrich Ludwig Zacharias 1768-1823.
.68 Kleist, Heinrich Bernt Wilhelm von 1777-1811.
.69 Minor Writers.

832.7 **Post-Classic Period, 1830–1856.**

.71 Grabbe, Christian Dietrich 1801–1836.
.72 Griepenkerl, Wolfgang Robert 1810–1836.
.73 Grillparzer, Franz 1791–1872.
.74 Birch-Pfeiffer, Charlotte 1800–1868.
.75 Münch-Bellinghausen, Eligius Franz Joseph. [Friedrich Halm.] 1806–1866.
.76 Laube, Heinrich 1806–84
.77 Hebbel, Friedrich 1815–1863.
.78 Gutzkow, Karl Ferdinand 1811–1878.
.79 Minor Writers.

.8 **Later 19th Century, 1856–**

.81 Benedix, Julius Roderich 1811–1873.
.82 Mosenthal, Salomon Hermann 1821–1877.
.83 Brachvogel, Albert Emil 1824–1878.
.84 Gottschall, Karl Rudolph 1823–
.85 Lindau, Paul 1839–
.89 Minor Writers.

833 German Fiction.

.5 **Period of Imitation, 1625–1750.**

.51 Buchholtz, Andrew Heinrich 1607–1671.
.52 Grimmelshausen, Hans Jakob Christoffel von 1625–1676.
.53 Anselm, Heinrich 1653–1697.
.54 "Robinsonaden."
.55 "Der Neue Amadis."

.6 **Classic Period, 1750–1830.**

.61 Wieland, Christoph Martin 1733–1813.
.62 Richter, Jean Paul Friedrich 1763–1825.
.63 Hardenberg, Friedrich von [Novalis] 1772–1801.
.64 Hoffmann, Ernst Theodor Wilhelm 1776–1822.
.65 La Motte Fouqué, Friedrich H; C; 1777–1843.
.66 Arnim, Ludwig Achim von 1781–1831.
.67 Hauff, Wilhelm 1802–1827.
.68 Chamisso, Adelbert von 1781–1838.
.69 Minor Writers.

.7 **Post-Classic Period, 1830-1856.**

.71 Zschokke, Johann Heinrich Daniel 1771–1848.
.72 Brentano, Clemens 1778–1842.
.73 Tieck, Ludwig 1773–1853.
.74 Postl, Karl [Charles Sealsfield] 1793–1864.
.75 Häring, Wilhelm [Wilibald Alexis] 1798–1871.
.76 Hahn-Hahn, Ida, gräfin von 1805–1880.
.77 Gerstäcker, Friedrich 1816–1872.
.78 Hackländer, Friedrich Wilhelm 1816–1877.
.79 Minor Writers.

.8 **Later 19th Century, 1856–**

.81 Auerbach, Berthold 1815–1882.
.82 Freytag, Gustav 1816–
.83 Scheffel, Joseph Viktor von 1826–
.84 Spielhagen, Friedrich 1829–
.85 Heyse, Paul Johann Ludwig 1830–
.86 Ebers, Georg 1837–
.89 Minor Writers.

834 German Essays. Subdivided by periods like 831.

835 German Oratory. " "

836 German Letters. " "

837 German Satire and Humor.

.2 **Middle High. Minnesingers, 1150–1300.**

.21 [Stricker, Der.] "Der Pfaffe Amis" und "Beispiele."
.22 "Salomon und Morolf."

.3 **Period of Decline, 1300–1517.**

.31 "Reineke Vos." See also 839.371.
.32 Brant, Sebastian 1458–1521.

.4 **Reformation. New High, 1517–1625.**

.41 Murner, Thomas "Tyll Eulenspiegel." 1475–1537.
.42 Fischart, Johann 1550–1589.

.5 **Period of Imitation, 1625–1750.**

.51 Moscherosch, Johann Michael 1601–1669.
.52 Rachel, Joachim 1618–1669.
.53 Wernicke, Christian 1660–1720.
.54 Liscow, Christian Ludwig 1701–1760.

.6 **Classic Period, 1750–1830.**

.61 Rabener, Gottlieb Wilhelm 1714–1771.
.62 Blumauer, Aloys 1755–1798.

838 German Miscellany. See 828, note.

839 Minor Teutonic Literatures.

Subdivided by form, Poetry, Drama, etc., like 830.

.1 **Low German.**

.2 **Frisian. Old Saxon.**

.3 **Dutch Literature. Flemish.**

.31 Dutch Poetry.

.311 **Middle Ages.** 1200–1450.
[.1, Jacob van Maerlant 1235–1291; (.2, Heinrije van Veldeke 1200, see 831.23;) .3, Jan I. van Brabant 1250–1294; .4, Melis Stoke 1310; .5, Dirc Potter 1428.]

.312 **Chambers of Rhetoric.** 1450–1600.
[.1, Antonius de Rovere 1482; .2, Anna Bijns 1500; .3, Matthijs de Castelein 1488–1548; .4, Cornelis Everaert 1550; .5, Jan Baptist Houwaert 1533–1599; .6, Dirk Volkerszoon Coornhert 1522–1590; .7, Philipp Marnix 1538–1598; .8, Cornelis van Ghistele 1600; .9, Minor Writers.]

.313 **Period of the Republic.** 1600–1700.
[.1, **Jacob Cats,** 1577–1660; .2, **Joost van der Vondel** 1587–1679; .3, Marie Tesselschade Visscher 1594–1649; .4, **Constantijn Huygens** 1596–1687; .5, Reyer Anslo 1626–1669; .6, Geraert Brandt 1626–1685; .7, Jan Antoniszoon van der Goes (Antonides) 1647–1684; .9, Minor Writers.]

.314 **Poetical Societies.** 1700–1800.
[.1, Lucas Rotgans 1654–1710; .2, Hubert Corneliszoon Poot 1689–1733; .3, Arnold Hoogvliet 1687–1763; .4, Sybrand Feitama 1694–1758; .5, Willem van Haren 1710–1768; .6, Jacob Bellamy 1757–1786; .7, Hieronymus van Alphen 1746–1803; .9, Minor Writers.]

.315 **Modern Period.** 1800–
[.1, Willem Bilderdijk 1756–1831; .2, Jan Frederik Helmers 1767–1813; .3, Cornelis Loots 1765–1834; .4, Hendrik Tollens 1780–1856; .5, Isaac da Costa 1798–1860; .6, Jan Jacob Lodewijk ten Kate 1819–; .9, Minor Writers.]

839.32 Dutch Drama.

.323 **Period of the Republic.** 1600–1700.

[.1, **Gerbrand Adriaenszoon Bredero** 1585–1618; .2, **Cornelisz oon Hooft** 1581–1647; .3, Samuel Costa 1580–1650; .4, Jan Vos 1620–1667; .5, Guillelmus Ogier 1619–1689; .6, Joachim Oudaan 1628–1692; .9, Minor Writers.]

.324 **Poetical Societies.** 1700–1800.

[.1, Pieter Langendijk 1683–1756; .2, Andries Pels; .3, Balthasar Huydecoper 1695–1778; .4, Onno Zwier van Haren 1713–1779; .5, Jan Nomsz 1738–1803; .9, Minor Writers.]

.325 **Modern Period.** 1800–

[.1, Samuel Iperuszoon Wiselius 1769–1845; .2, Helvetius van den Bergh 1795–1865; .3, Hendrik Jan Schimmel 1824–.]

839.33 Dutch Fiction.

.334 **Poetical Societies.** 1700–1800.

[.1, Elisabeth Bekker Wolff 1738–1804; .2, Agatha Deken 1741–1804; .3, Rhijnvis Feith 1753–1824.]

335 **Modern Period.** 1800–

[.1, Adriaan Loosjes 1761–1818; .2, Jacob Vosmaer 1783–1834; .3, Jan Frederik Oltmans 1806–1854; .4, Jacob van Lennep 1802–1868; .5, **Hendrik Conscience** 1812–; .6, Anna Louisa Geertruida Bosboom-Toussaint 1812–.]

839.34 Dutch Essays.

.344 **Poetical Societies.** 1700–1800.

[Justus Van Effen 1684–1735.]

.345 **Modern Period.** 1800–

[.1, Johannes Henricus van der Palm 1763–1840; .2, Reinier Cornelis Bakhuizen van den Brink 1810–1865; 3, Everhardus Johannes Potgieter 1808–1875; .4, Nicolas Beets 1814–; .5, Coenraad Busken Huet 1826–.]

839.37 Dutch Satire and Humor.

.371 **Middle Ages.** 1200–1450.

[**Reinaert** (van den vos Reinaerde) see 837.31.]

.374 **Poetical Societies.** 1700–1800.

[Arend Simonszoon Fokke 1755–1812.]

839.38 Dutch Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.381 **Middle Ages.** 1200–1450.

[Jan van Boendale (Jan de Clerc), *Chronicles*, 1280–1365.]

.384 **Poetical Societies.** 1700–1800.

[Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–1773.]

.4 Platt Deutsch.

.5 Scandinavian.

.6 Old Norse. Icelandic. Faroese.

839.7 Swedish Literature.

.71 Swedish Poetry.

.711 **Middle Ages.** 1200–1520.

[.1, Nicolaus Hermanni 1391; .2, Bishop Tomas 1443; .3, Ericus Olai 1486; .4, Ballads (Folkvisor).]

.712 **Reformation.** 1520–1640.

[.1, Olaus Petri 1497–1552; .2, Laurentius Petri 1499–1573.]

.713 **Age of Stjernhjelm.** 1640–1740.

[.1, **Georg Stjernhjelm** 1598–1672; .2, Lars Johansson (Lucidor) 1640–1674; .3, Haquin Spegel 1645–1714; .4, Israel Holmström 1660–1708; .5, Gunno Eurelius Dahlstjerna 1661–1709; .6, Johan Runius 1679–1713; .7, Jacob Frese 1691–1729; .8, Samuel von Triewald 1688–1743; .9, Minor Writers.]

.714 **Age of Dalin.** 1740–1780.

[.1, Olof Carelius 1758; .2, **Olof von Dalin** 1708–1763; .3, Hedvig Charlotta Nordenflycht 1718–1763; .4, Anders Odel 1718–1771; .5, Gustaf Filip Creutz 1729–1785; .6, Gustaf Fredrik Gyllenborg 1731–1808; .7, Olof Bergklint 1733–1805; .9, Minor Writers.]

.715 **Age of Gustavus.** 1780–1800

[.1, **Karl Mikael Bellman** 1740–1795; .2, Johan Henrik Kellgren 1751–1795; .3, Bengt Lidner 1757–1793; .4, Johan Gabriel Oxenstjerna 1750–1818; .5, Tomas Thorild 1759–1808; .6, Anna Maria Lenngren 1754–1817; .7, Karl Gustaf af Leopold 1756–1829; .8, Frans Mikael Franzén 1772–1847; .9, Minor Writers.]

.716 **Modern Period.** 1800–

[.1, Per Henrik Ling 1776–1839; .2, Johan Olof Wallin 1779–1839; .3, **Esaias Tegnér** 1782–1846; .4, Erik Johan Stagnelius 1793–1823; .5, Per Daniel Amadeus Atterbom 1790–1855; .6, Karl Jonas Ludwig Almqvist 1793–1866; .7, Johan Ludvig Runeberg 1804–1877; .8, Karl Vilhelm Böttiger 1807–1879; .9, Minor Writers.]

839.72 Swedish Drama.

.722 **Reformation.** 1520–1640.

[.1, Johan Messenius 1579–1637; .2, Magnus Olai Asteropherus –1647; .3, Andreas Johannis Prytz 1590–1655.]

.723 **Age of Stjernhjelm.** 1640–1740.

[Isak Börk –1701.]

.725 **Age of Gustavus.** 1780–1800.

[.1, Karl Israel Hallman 1732–1800; .2, Gustaf III. (King) 1746–1792; .3, Olof Kexél 1748–1796; .4, Karl Envallsson 1756–1806.]

.726 **Modern Period.** 1800–

[.1, Johan Börjesson 1790–1866; .2, Bernhard von Beskow 1796–1868; .3, August Teodor Blanche 1811–1868; .4, Johan Kristofer Jolin 1818–; .5, Frans Hedberg 1828–; .6, Per Johan Edvard Bäckström 1841–.]

839.73 Swedish Fiction.

.734 **Age of Dalin.** 1740–1780.

[.1, Jakob Henrik Mörk 1714–1763; .2, Jakob Vallenberg 1746–1778.]

.736 **Modern Period.** 1800–

[.1, Sofia Margareta von Knorring 1797–1848; .2, Magnus Jakob Crusenstolpe 1795–1865; .3, **Fredrika Bremer** 1801–1865; .4, Karl Anton Wetterberg (Onkel Adam) 1804–; .5, Emilie Flygare Carlén 1807–1892; .6, Zakris Topelius 1818–; .7, Viktor Rydberg 1829–; .9, Minor Writers.]

839.74 Swedish Essays.

.746 **Modern Period.** 1800–

[.1, Benjamin Karl Henrik Höijer 1767–1812; .2, Lorenzo Hammarsköld 1785–1827; .3, Bernhard Elis Malmström 1816–1865; .4, Karl Julius Lénström 1811–; .5, Gustaf Håkan Jordan Ljunggren 1825–; .6, Karl Rupert Nyblom 1832–.]

839.77 Satire and Humor.

.776 **Modern Period.** 1800–

[.1, Johan Anders Wadman 1777–1837; .2, Erik Sjöberg (Vitalis) 1794–1828; .3, Kristian Erik Fahlcrantz 1790–1866; .4, Vilhelm August Detlof von Braun 1813–1860; .5, Gunnar Wennerberg 1817–.]

839.78 Swedish Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.781 **Middle Ages.** 1200–1520.

[Canon Mattias, *Bible Translation*, –1350; Peder Månsson, *Encyclopedia*, –1534.]

.782 **Reformation.** 1520–1640.

[.1, Peder Andersson Svart, *History*, –1562; .2, Erik Göransson Tegel, *History*, 1580–1636; .3, Ægidius Girs, *History*, 1580–1639; .4, Gustavus Adolphus (King), *History*, 1594–1632.]

.783 **Age of Stjernhjelm.** 1640–1740.

[.1, Olof Rudbeck, *Medicine*, 1630–1702; .2, Urban Hjärne 1641–1724; .3, Johan Peringskjöld, *History*, 1654–1720; .4, Anders Rydelius, *Philosophy*, 1671–1738; .5, Anders Celsius, *Astronomy*, 1701–1744; .6, Emanuel Svedenborg, *Theology*, 1688–1772.]

.784 **Age of Dalin.** 1740–1780.

[.1, Karl Gustaf Tessin, *History*, 1695–1770; .2, Karl von Linné, *Botany*, 1707–1778; .3, Johan Ihre, *Philology*, 1707–1780; .4, Sven Lagerbring, *History*, 1707–1787; .5, Anders Johan von Höpken, *History*, 1712–1789; .6, Olof Celsius, *History*, 1716–1794; .7, Anders af Botin, *History*, 1724–1790; .8, Torbern Olof Bergman, *Chemistry*, 1735–1784; Karl Vilhelm Scheele, *Chemistry*, 1742–1786.]

.786 **Modern Period.** 1800–

[.1, Erik Gustaf Geijer, *History*, 1783–1847; .2, Anders Magnus Strinnholm, *History*, 1786–1862; .3, Anders Fryxell, *History*, 1795–1881; .4, Frederik Ferdinand Carlson, *History*, 1811–.]

839.8 Danish and Norwegian Literature.

.81 Danish and Norwegian Poetry.

.811 **Middle Ages.** 1100–1500.

[.1, Anders Sunesen; .2, Ballads (Kjæmpeviser).]

.812 **Reformation.** 1500–1560.

[Hans Tavsen 1494–1561.]

.813 **Learned Period.** 1560–1700.

[.1, Anders Arrebo 1587–1637; .2, Anders Bording 1619–1677; .3, Peder Syv 1631–1702; .4, Thomas Kingo 1634–1703; .5, Peder Dass 1647–1708; .6, Dorthe Engelbrektsdatter 1635–1716; .7, Sören Ter Kelsen 1661; .8, Jacob Vorm 1642–1693.]

.814 **Age of Holberg.** 1700–1750.

[.1, Jörgen Sorterup 1662–1723; .2, Töger Reenberg 1656–1742; .3, Kristian Falster 1690–1752; .4, Hans Adolph Brorson 1694–1764; .5, Ambrosius Stub 1705–1758; .6, Kristian Frederik Wadskjær 1712–1779.]

839.815 **Period of Enlightenment.** 1750–1800.

[.1, Kristian Braunmann Tullin 1728–1765; .2, **Johannes Evald** 1743–1781; .3, Johan Herman Vessel 1742–1785; .4, Edvard Storm 1749–1794; .5, Kristen Henriksen Pram 1756–1821; .6, Jens Baggesen 1764–1826; .7, Knud Lyne Rahbek 1670–1830; .8, Malte Konrad Bruun 1775–1826; .9, Minor Writers.]

.816 **Modern Period.** 1800–

[.1, **Adam Gottlob Oehlenschläger** 1779–1850; .2, Bernhard Severin Ingemann 1789–1862; .3, Nicolai Frederik Severin Grundtvig 1783–1872; .4, Johannes Carsten Hauch 1790–1871; .5, Henrik Wergeland 1808–1845; .6, Ludvig Bödtcher 1793–1874; .7, Frederik Paludan-Müller 1809–1876; .8, Carl Ploug 1813–; .9, Minor Writers.

839.82 Danish and Norwegian Drama.

.823 **Learned Period.** 1560–1700.

[.1, Hieronimus Justesen Rauch 1539–1607; .2, Hans Kristensen Sthen 1544–1603; .3, Peder Jensen Hegelund 1542–1614; .4, Hans Thomsen Stege; .5, Jens Lönberg 1663–1700.]

.824 **Age of Holberg.** 1700–1750.

[.1, **Ludvig Holberg** 1684–1754.]

.825 **Period of Enlightenment.** 1750–1800.

[.1, Charlotte Dorothea Biehl 1731–1788; .2, Johan Nordal Bruun 1745–1816; .3, Ole Johan Samsöe 1759–1796; .4, Enevold Falsen 1755–1808; .5, Thomas Thaarup 1749–1821; .6, Kristian Levin Sander 1756–1819; .7, Olaf Kristian Olufsen 1764–1827; .8, Peter Andreas Heiberg 1758–1841; .9, Minor Writers.]

.826 **Modern Period.** 1800–

[.1, Caspar Johannes Boye 1791–1853; .2, Johan Ludvig Heiberg 1791–1860; .3, Henrik Hertz 1798–1870; .4, Thomas **Overskou** 1798–1873; .5, Christian Knud Frederik Molbech 1821–1888; .6, Henrik Ibsen 1828–.]

839.83 Danish and Norwegian Fiction.

.836 **Modern Period.** 1800–

[.1, Thomasine Christine Gyllembourg-Ehrensvärd 1773–1856; .2, Steen Steensen Blicher 1782–1848; .3, Christian Winther 1796–1876; .4, **Hans Christian Andersen** 1805–1875; .5, Meyer Aaron Goldschmidt 1819–; .6, Holger Drachmann; .7, **Björnstjerne Björnson** 1832–.]

839.84 Danish and Norwegian Essays.

.845 **Period of Enlightenment.** 1750–1800.

[Rasmus Nyerup 1759–1829.]

.846 **Modern Period.** 1800–

[.1, Niels Mathias Petersen 1781–1862; .2, Sören Aaby Kjérkegaard 1813–1855; .3, Rudolph Keyser 1803–1864; .4, Peter Andreas Munch 1810–1863; .5, Johan Sebastian Cammermeyer Welhaven 1807–1873; .6, Georg Brandes 1842–.]

839.87 Danish and Norwegian Satire and Humor.

.875 **Period of Enlightenment.** 1750–1800.

[.1, Peder Magnus Trojel 1743–1796; .2, Peder Koford Trojel 1754–1784; .3, Thomas Kristoffer Bruun 1750–1834.]

839.88 Danish and Norwegian Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.881 **Middle Ages.** 1100–1500.

[.1, Saxo (Longus) Grammaticus, *History*, –1208; .2, Svend Aagesen, *History*.]

.882 **Reformation.** 1500–1560.

[.1, Kristiern Pedersen, "*The Father of Danish Literature*," 1480–1554; .2, Povel Eliesen, *Sermons*, 1480–; .3, Hans Mikkelsen, *Bible Translation*, –1532; .4, Peder Plade (Palladius) 1503–1560; .5, Henrik Smith, *Medicine*, –1563.]

.883 **Learned Period.** 1560–1700.

[**History:** Hans Svaning 1508–1584; Anders Sörensen Vedel 1542–1616; Peder Klausen 1545–1614; Arild Hvitfeld 1549–1609; Klaus Lyskander 1558–1623; Ole Worm 1588–1654; Peder Resen 1625–1688.]

[**Theology:** Niels Hemmingsen 1513–1600; Holger Rosenkranz 1574–1642; Jesper Brochmand 1585–1652.]

[**Science:** Tyge Brahe, *Astronomy*, 1546–1601; Kaspar Bartholin, *Medicine*, 1585–1629; Thomas Bartholin, *Anatomy*, 1616–1680; Ole Borch, *Medicine*, 1626–1690; Niels Stensen, *Anatomy*, 1638–1686; Ole Römer, *Astronomy*, 1644–1710.]

.884 **Age of Holberg.** 1700–1750.

[.1, Erik Pontoppidan, *History*, 1698–1764; .2, Jacob Langebek, *History*, 1710–1775; .3, Frederik Kristian Eilschov, , 1725–1750; .4, Gerhard Schöning, *History*, 1722–1780; .5, Peder Frederik Suhm, *History*, 1728–1798.]

.9 Gothic.

840 French Literature.

840.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on French Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

841 French Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of French Poetry.

.1 Early French, 842–1400.

.11 **"Chanson de Roland."** "Chanson de Geste."

.12 Wace, Robert.

.13 Marie de France.

.14 Chrestien de Troyes –1191.

.15 Quesnes de Bethune –1228.

.16 Thibaut 4th, comte de Champagne 1201–1253.

.17 Rutebeuf 1230–

.18 **"Roman de la Rose."**

Guillaume de Loris, 1195–1260. Jean de Meung, 1280–1320.

.19 Minor Poets.

.2 Transition Period, 1400–1500.

.21 Chartier, Alain 1386–1458.

.22 Orléans, Charles duc d' 1391–1465.

.23 Coquillart, Guillaume 1421–1510.

.24 Baude, Henri 1430–1495.

.25 Villon, François 1431–1485.

.26

.27

.28

.29 Minor Poets.

.3 Renaissance, 1500–1600.

.31 Daurat, Jean 1510–1588.

.32 Du Bellay, Joachim 1524–1560.

.33 Belleau, Remy 1528–1577.

.34 Ronsard, Pierre de 1524–1585.

.35 Thiard, Pontus de 1521–1605.

.36 Baïf, Jean Antoine de 1532–1589.

.37 Saluste du Bartas, Guillaume de 1544–1590.

.38 Desportes, Philippe 1546–1606.

.39 Minor Poets.

.4 Classical Period, 1600–1715.

.41 Malherbe, François de 1555–1628.

.42 Maynard, François 1582–1646.

.43 Racan, Honorat de Bueil, marquis de 1589–1670.

.44 Chapelain, Jean 1595–1674.

.45 **La Fontaine, Jean de** 1621–1695.

.46 Deshoulières, Antoinette (du Ligier de la Garde), Madame 1637–1694.

.47 Chaulieu, Guillaume Amfrye de 1639–1720.

.48

.49 Minor Poets.

841.5 **18th Century, 1715–1789.**

.51	Rousseau, Jean Baptiste	1670–1741.	
.52	Racine, Louis	1692–1763.	
.53	Pompignan, Jean Jacques de Franc, marquis de	1709–1784.	
.54	Delille, Jacques	1738–1813.	
.55	Roucher, Jean Antoine	1745–1794.	
.56	Chénier, André Marie de	1762–1794.	
.57	Parny, Evariste Désiré Desforges, vicomte de	1753–1814.	
.58			
.59	Minor Poets.		

.6 **Revolution and Empire, 1789–1815.**

.61	Lebrun, Ponce Denis Écouchard	1729–1807.	
.62	Fontanes, Louis, marquis de	1757–1821.	
.63	Parseval Grandmaison, François Auguste	1759–1834.	
.64	Luce de Lancival, Jean Charles Julien	1764–1810.	
.65	Désaugiers, Marc Antoine Madeleine	1772–1827.	
.66	Campenon, François Nicolas Vincent	1772–1843.	
.67	Millevoye, Charles Hubert	1782–1816.	
.68			
.69	Minor Poets.		

.7 **Constitutional Monarchy, 1815–1848.**

.71	**Béranger, Pierre Jean de**	1780–1857.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 842.72.
.73	Deschamps, Émile	1791–1871.	
.74	Lamartine, Alphonse Marie Louis de Prat de	1792–1869.	
.75	Reboul, Jean	1796–1864.	
.76	Vigny, Alfred Victor, comte de	1799–1863.	See 842.75.
.77	Musset, Louis Charles Alfred de	1810–1857.	See 842.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 842.78 and 843.:8
.79	Minor Poets.		

.8 **Later 19th Century, 1848–**

.81	Laprade, Pierre Marin Victor Richard de	1812–1883.	
.82	Dupont, Pierre	1821–1870.	
.83	Banville, Theodore Faullain de	1820–1891.	
.84	Sully-Prudhomme, René François Armand	1839–	
.85	Coppée, Francis Édouard Joachim	1842–	See 842.88.
.86	Deroulède, Paul	1846–	
.87			
.88			
.89	Minor Poets.		

842 French Drama.

.1 **Early French, 842–1400.**

.11	Mysteries and Miracles.	
.12	Adam de la Halle	1240–1286.
.13	Bodel, Jean.	
.14		
.15		
.16		
.17		
.18		
.19	Minor Dramatists.	

842.2 **Transition Period, 1400–1500.**

.21	Gresban, Arnoul.	
.22	Michel, Jean	–1493.
.23	Gringoire, Pierre	1480–1544.
.24		
.25		
.26		
.27		
.28		
.29	Minor Dramatists.	

.3 **Renaissance, 1500–1600.**

.31	Le Coq, Thomas.	
.32	Baïf, Lazare de.	
.33	La Peruse, Jean Bastier de	1530–1555.
.34	Jodelle, Étienne	1532–1573.
.35	Grévin, Jacques	1538–1570.
.36	La Taille, Jean de	1540–1608.
.37	Garnier, Robert	1545–1601.
.38	Larivey, Pierre de	1550–1612.
.39	Minor Dramatists.	

.4 **Classical Period, 1600–1715.**

.41	**Corneille, Pierre**	1606–1684.
.42	**Molière, Jean Baptiste Poquelin,** *called*	1622–1673.
.43	Corneille, Thomas	1625–1709.
.44	Boursault, Edme	1638–1701.
.45	**Racine, Jean**	1639–1699.
.46	Brueys, David Augustin de	1640–1723.
.47	Dufresny, Charles Rivière	1648–1724.
.48	Baron, Michel Boyron, *called*	1653–1729.
.49	Minor Dramatists.	

.5 **18th Century, 1715–1789.**

.51	La Motte, Antoine Houdart de	1672–1731.	
.52	Crebillon, Prosper Jolyot de	1674–1762.	
.53	Destouches, Philippe Nericault	1680–1754.	
.54	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 843.52.
.55	Piron, Alexis	1689–1773.	
.56	**Voltaire, François Marie Arouet de**	1694–1778.	See 843.54.
.57	Sédaine, Michel Jean	1719–1797.	
.58	Beaumarchais, Pierre Augustin Caron de	1732–1799.	
.59	Minor Dramatists.		

.6 **Revolution and Empire, 1789–1815.**

.61	Ducis, Jean François	1733–1816.	
.62	Collin-Harleville, Jean François	1735–1806.	
.63	La Harpe, Jean François de	1739–1803.	See 844.61.
.64	Fabre d'Églantine, Philippe François Nazaire	1755–1794.	
.65	Andrieux, François Guillaume Jean Stanislas	1759–1833.	
.66	Chenier, Marie Joseph	1764–1811.	
.67	Picard, Louis Benoît	1769–1828.	
.68	Lemercier, Louis Jean Népomucène	1771–1840.	
.69	Minor Dramatists.		

842.7 **Constitutional Monarchy, 1815–1848.**

.71	Soumet, Alexandre	1788–1845.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 841.72.
.73	Scribe, Augustin Eugène	1791–1861.	
.74	Ancelot, Jacques Arsène François Polycarpe	1794–1864.	
.75	Vigny, Alfred Victor, comte de	1799–1863.	See 841.76.
.76	Musset, Louis Charles Alfred de	1810–1857.	See 841.77.
.77	**Dumas, Alexandre, the elder**	1806–1870.	See 843.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 843.78
.79	Minor Dramatists.		

.8 **Later 19th Century, 1848–**

.81	Labiche, Eugène Marin	1815-88	
.82	Ponsard, François	1824–1867.	
.83	Augier, Guillaume Victor Émile	1822–89	
.84	Dumas, Alexandre, fils	1824–	
.85	Bornier, Henri de	1825–	
.86	Sardou, Victorien	1831–	
.87	Pailleron, Édouard	1834–	
.88	Coppée, Francis Édouard Joachim	1842–	See 841.85.
.89	Minor Dramatists.		

843 French Fiction.

.2 **Transition Period, 1400–1500.**

.21	Christine de Pisan	1363–1431.
.22	Jean de Tuim.	
.23	La Sale, Antoine de	1398–1462.
.24	Chastelain, Georges	1403–1475.
.25		
.26		
.27		
.28		
.29	Minor Writers.	

.3 **Renaissance, 1500–1600.**

.31	Marguerite de Navarre	1492–1549.
.32	Desperriers, Bonaventure	1500–1544.
.33	Herberay, Nicolas d'	–1552.
.34	Du Fail, Noël	–1585.
.35	Bouchet, Guillaume	1526–1606.
.36	Beroalde de Verville, François	1558–1612.
.37		
.38		
.39	Minor Writers.	

.4 **Classical Period, 1600–1715.**

.41	Urfé, Honoré d'	1568–1625.
.42	Gomberville, Marin Le Roy de	1600–1647.
.43	La Calprenède, Gauthier de Costes de	1602–1663.
.44	Scudéry, Georges de	1601–1667.
.45	Scudéry, Madeleine de	1607–1701.
.46	Cyrano de Bergerac, Savinien	1620–1655.
.47	Perrault, Charles	1628–1703.
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de	1634–1693.
.49	Minor Writers.	

843.5 **18th Century, 1715–1789.**

.51	Le Sage, Alain René	1668–1747.	
.52	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 842.54.
.53	Prevost d'Exiles, Antoine François	1697–1763.	
.54	**Voltaire, François Marie Arouet de**	1694–1778.	See 842.56.
.55	Crébillon, Claude Prosper Jolyot de, fils	1707–1777.	
.56	**Rousseau, Jean Jacques**	1712–1778.	
.57	Restif de la Bretonne, Nicolas Edme	1734–1806.	
.58	Florian, Jean Pierre Claris de	1755–1794.	
.59	Minor Writers.		

.6 **Revolution and Empire, 1789–1815.**

.61	St. Pierre, Jacques Henri Bernardin de	1737–1814.
.62	**Staël Holstein, Anne Louise Germaine (Necker), baronne de**	1766–1817.
.63	Constant de Rebecque, Henri Benjamin	1767–1830.
.64	Maistre, Xavier de	1763–1852.
.65	Chateaubriand, François Auguste René, vicomte de	1768–1848.
.66		
.67		
.68		
.69	Minor Writers.	

.7 **Constitutional Monarchy, 1815–1848.**

.71	Beyle, Marie Henri [de Stendhal]	1783–1842.	
.72	Nodier, Charles	1790–1844.	
.73	**Balzac, Honoré de**	1799–1850.	
.74	Sue, Marie Joseph, *called* Eugène	1804–1857.	
.75	Souvestre, Émile	1806–1854.	
.76	**Dumas, Alexandre, the elder**	1806–1870.	See 842.77.
.77	Gautier, Theophile	1811–1872.	
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 842.78.
.79	Minor Writers.		

.8 **Later 19th Century, 1848–**

.81	Mérimée, Prosper	1803–1870.
.82	**Dudevant, Amantine Lucile Aurore Dupin [George Sand]**	1804–1876.
.83	Feuillet, Octave	1822–1890
.84	Flaubert, Gustave	1821–1881.
.85	Erckmann-Chatrian { Erckmann, Émile	1822–
	Erckmann-Chatrian { Chatrian, Alexandre	1826–1890
.86	About, Edmond François Valentin	1828–1885
.87	Cherbuliez, Victor	1832–
.88	Daudet, Alphonse	1840–
.89	Minor Writers.	

844 French Essays.

.3 **Renaissance, 1500–1600.**

.31	**Montaigne, Michel Eyquem de**	1533–1592.

.4 **Classical Period, 1600–1715.**

.41	Du Vair, Guillaume	1556–1621.
.42	Saint-Évremond, Charles de Marguetel de Saint-denis de	1613–1703.

844.5 **18th Century, 1715–1789.**

.51 Fontenelle, Bernard le Bovier de 1657–1757.
.52 Montesquieu, Charles le Secondat, baron de 1689–1755.
.53 Alembert, Jean le Rond d' 1717–1783.

.6 **Revolution and Empire, 1789–1815.**

.61 La Harpe, Jean François de 1739–1803. See 842.63.
.62 Joubert, Joseph 1754–1824.
.63 Courier de Méré, Paul Louis 1772–1825.
.64 Senancour, Étienne Pivert de 1770–1846.

.7 **Constitutional Monarchy, 1815–1848.**

.71 La Mennais, Hugues Félicité Robert de 1782–1854.
.72 Villemain, Abel François 1790–1870.
.73 Planche, Jean Baptiste Gustave 1808–1857.
.74 **Sainte Beuve, Charles Augustin** 1804–1869.
.75 Saint-Marc Girardin 1801–1873.
.76 Janin, Jules Gabriel 1804–1874.
.77 Nisard, Jean Marie Napoléon Désiré 1806–

.8 **Later 19th Century, 1848–**

.81 Quinet, Edgar 1803–1875.
.82 Renan, Ernest 1823–1892.
.83 Taine, Hippolyte Adolphe 1828–1893.

845 French Oratory. Subdivided by periods, like 841.

846 French Letters. Subdivided by periods, like 841.

847 French Satire and Humor.

.1 **Early French, 842–1400.**

.11 Guyot de Provins.
.12 "Roman du Renard." See 837.31 and 839.371.
.13 Deschamps, Eustache 1320–1400.

.3 **Renaissance, 1500–1600.**

.31 Marot, Clement 1495–1544.
.32 **Rabelais, François** 1495–1553.
.33 "La Satyre Ménippée" 1594.
.34 Aubigné, Théodore Agrippa d' 1550–1630.
.35 Regnier, Mathurin 1573–1613.

.4 **Classical Period, 1600–1715.**

.41 Viau, Théophile de 1590–1626.
.42 Saint Amant, Marc Antoine Gérard 1594–1661.
.43 Scarron, Paul 1610–1660.
.44 Benserade, Isaac de 1612–1691.
.45 Furetière, Antoine 1620–1688.
.46 **Boileau Despréaux, Nicolas** 1636–1711.
.47 Regnard, Jean François 1655–1709.

.5 **18th Century, 1715–1789.**

.51 Gresset, Jean Baptiste Louis 1709–1777.
.52 Gilbert, Nicolas Joseph Laurent 1751–1780.

.7 **Constitutional Monarchy, 1815–1848.**

.71 Barthélemy, August Marseille 1796–1867.
.72 Barbier, Henri Auguste 1805–1882.

848 French Miscellany. Subdivided by periods, like 841.

849 Provençal Literature.

.1 **Provençal poetry.**

.11 1st Period. 900–1100.

Poetry in hands of clergy. No folk poetry preserved. Form mainly epic. Language not yet fixed. Country under rule of counts, nominally subject to Emperor, really independent till 1486, then reunited to France.

.111 Epic Poetry.
Boethius.
.112 Lyric Poetry.
.119 Minor poetry. Didactic.

12 Golden Age. 1100–1300.

Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most important.

.121 Romances of Chivalry.
Girart de Rossilho.
.122 Historical Poetry.
Croisade contre les Albigeois.
.123 Romans d'Aventures.
Flamenca.
.124 Lyric Poetry.
.125 Bernart de Ventadorn flourished about 1140–1195.
.126 Born, Bertran de " " 1180–1195.
.127 Arnaut Daniel " " 1180–1200.
.128 Borneill, Guiraut de, " " 1175–1220.
.129 Minor poetry.

Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours.

.13 Aftermath 1300–1500.

Downfall of language and literature owing to lack of content and to political and social causes, especially the Crusade against the Albigenses.

.131 Poets of school of Toulouse.

Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial—a craft Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, Chancellor of "Consistory de la gaya sciensa" established at Toulouse 1324. First prize a golden violet. When in danger of perishing, Consistory revived in 1484 and poetic exercises styled "Jeux Floraux."

.132 La Noble Leyczon.

Religious poetry of Waldenses.

.139 Minor poetry.

.14 Decadence. 1500–

Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852.

.141 Goudouli, Pierre de 1579–1649.
.142 Despourrins, Cyprien 1698–1755.
.143 Jasmin, Jacques 1798–1864.
.144 Roumanille, Joseph 1818–
.145 Aubanel, Jos. Marie J. Baptiste Theodore 1829–
.146 Mistral, Frederic 1830–
.149 Minor poetry.

849.9 **Catalan Literature.**

.91 Catalan poetry.

.911 1st Period 1200–1350.

Catalonia before 1137 ruled by French Counts, then united to Aragon. Language is closely allied to Provencal, in which first poets wrote. MSS. scattered; few as yet printed; Literature begins with James 1st (1213-'76) who made Catalan the state language.

For Ramon Muntaner see 849.981.3.

.1, Raimon Lull 1225-1315; .2, Febler 1250; .9. Minor poets.

.912 Second Period. 1350–1450.

Imitation of Neo Provencal, French and Italian, specially of Dante, Petrarch and Boccacio. Some flashes of originality. Fra Rocaberti. Imitation of Dante.

.913 Age of Perfection 1450–

From 16th Century, Catalan literature merged in Spanish, tho some writers stil employ idiom, e. g. "Balaguer"

.1, March, Ausias -1460, greatest of Catalan poets; .2, Fenolla, Bernard; .3, Jacme Roig (satiric); .4, Farrer; .5, Serafi; 6, Pujol: .7, Garcia; .9, Minor Poets.

.93 Catalan Fiction.

.933 Age of Perfection 1450–

Joanet Martorel –1460. Tirant lo Blanch, a chivalric romance.

.98 Miscellany.

.981 1st Period. 1200–1350.

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner.

.1, James 1st (The Conqueror) 1213-'76; .2, Desclot, Bernardo; .3, Muntaner, Ramon 1265-1340; .4, Ximenes; .9, Minor authors.

.982 Second period. 1350–1450

Prose resists foreign influences better than poetry. Many philosophical and theological writings beside historical works.

.1, Tomich; .2, Turell; .9, Minor writers.

850 Italian Literature.

850.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on Italian Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

851 Italian Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Italian Poetry.

.1 Early Italian; Age of Dante, –1375

To death of Boccaccio, 1375.

.11 Protonotario, Stefano –1250.
.12 Arezzo, Guittone d' –1294.
.13 Guinicelli, Guido –1276.
.14 Cavalcanti, Guido 1260–1300.
.15 **Alighieri, Dante** 1265–1321.
.16 Pistoia, Cino da 1270–1336.
.17 Uberti, Fazio degli –1369.
.18 **Petrarca, Francesco** 1304–1374.
.19 Minor Poets.

.2 Period of Classical Learning, 1375–1492.

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492.

.21 Frezzi, Federigo –1416.
.22 Bojardo, Matteo 1430–1494.
.23 **Medici, Lorenzo dei** (Il Magnifico) 1448–1492.
.24 **Poliziano, Angelo** 1454–1494. See 852.22.
.25 Benivieni, Girolamo 1453–1542.
.26 Sannazzaro, Jacopo 1458–1530.
.29 Minor Poets.

.3 Age of Leo the Tenth, 1492–1542.

From death of Lorenzo il Magnifico, 1492, to Convocation of Council of Trent, 1542

.31 Bembo, Pietro 1470–1547.
.32 **Ariosto, Lodovico** 1474–1533.
.33 Rucellai, Giovanni 1475–1526.
.34 Molza, Francesco 1483–1544. See 853.33.
.35 Tasso, Bernardo 1493–1569.
.36 Alamanni, Luigi 1495–1556.
.37 Guidiccioni, Giovanni 1500–1541.
.38 Casa, Giovanni della 1503–1556.
.39 Minor Poets.

4. Later 16th Century, 1542–1585.

From Convocation of Council of Trent, 1542, to Pontificate of Sixtus V., 1585.

.41 Costanzo, Angelo di 1507–1591.
.42 Rota, Bernardino 1509–1575.
.43 Tansillo, Luigi 1510–1568.
.44 Magno, Celio 1536–1602.
.45 Guarini, Giovambattista 1537–1612.
.46 **Tasso, Torquato** 1544–1595.
.47 Baldi, Bernardino 1553–1617.
.49 Minor Poets.

851.5 **Period of Decline, 1585–1748.**

From Pontificate of Sixtus V., 1585–90, to Peace of Aix-la-Chapelle. 1748.

.51	Chiabrera, Gabriello	1552–1637.
.52	Marini, Giovambattista	1569–1625.
.53	Testi, Fulvio	1593–1646.
.54	Filicaja, Vincenzo	1642–1707.
.55	Guidi, Alessandro	1650–1712.
.56	Manfredi, Eustachio	1674–1738.
.57	Frugoni, Carlo Innocenzo	1692–1768.
.58	Algarotti, Francesco	1712–1764.
.59	Minor Poets.	

.6 **Period of Renovation, 1748–1814.**

From Peace of Aix-la-Chapelle, 1748, to Congress of Vienna, 1814.

.61	Paradisi, Agostino	1736–1783.
.62	Mascheroni, Lorenzo	1750–1800.
.63	Pindemonte, Ippolito	1753–1828.
.64	Monti, Vincenzo	1754–1828.
.65	Cassi, Francesco	1778–1846.
.66	Foscolo, Ugo	1779–1827.
.67	Arici, Cesare	1782–1836.
.68	Sestini, Bartolommeo	1792–1822.
.69	Minor Poets.	

.7 **Early 19th Century, 1814–1859.**

From Congress of Vienna, 1814, to War of Independence, 1859.

.71	Berchet, Giovanni	1783–1851.	
.72	Rossetti, Gabriello	1783–1854.	
.73	Manzoni, Alessandro	1785–1873.	See 853.72
.74	Marchetti, Giovanni	1790–1852.	
.75	Leopardi, Giacomo	1798–1837.	
.76	Carrer, Luigi	1801–1850.	
.77	Regaldi, Giuseppe	1809–1883.	
.78	Prati, Giovanni	1815–1884.	
.79	Minor Poets.		

.8 **Later 19th Century, 1859–**

From War of Independence, 1859, to

.81	Aleardi, Aleardo	1810–1878.
.82	Zanella, Giacomo	1820–
.83	Gnoli, Domenico	1836–
.84	Carducci, Giosuè	1836–
.85	Fogazzaro, Antonio	1842–
.86	Rapisardi, Mario	1843–
.87	Guerrini, Olindo	1845–
.88		
.89	Minor Poets.	

852 Italian Drama.

.1 **Early Italian; Age of Dante, –1375.**

.2 **Period of Classical Learning, 1375–1492.**

.21	Belcari, Feo	1410–1484.	
.22	Poliziano, Angelo	1454–1494.	See 851.24.
.29	Minor Dramatists.		

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Machiavelli, Niccolò	1469–1527.	See 854.31.
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520.	
.33	Trissino, Gian Giorgio	1478–1550.	
.34	Aretino, Pietro	1492–1556.	
.35	Ambra, Francesco d'	–1558.	
.39	Minor Dramatists.		

.4 **Later 16th Century, 1542–1585.**

.41	Speroni, Sperone	1500–1588.	
.42	Giraldi, G. B. Cinzio	1504–1573.	See 853.44.
.43	Cecchi, Giovanni Maria	1517–1587.	
.44	Asinari, Federigo	1527–1576.	
.45	Porta, Giovambattista della	1538–1615.	
.49	Minor Dramatists.		

.5 **Period of Decline, 1585–1748.**

.51	Buonarroti, Michelangiolo, Jr.	1564–1646.
.52	Rinuccini, Ottavio	1565–1622.
.53	Andreini, Giovambattista	1578–1650.
.54	Gigli, Girolamo	1660–1722.
.55	Zeno, Apostolo	1669–1750.
.56	Maffei, Scipione	1675–1755.
.57	Trapassi, Pietro (Metastasio)	1698–1782.
.59	Minor Dramatists.	

.6 **Period of Renovation, 1748–1814.**

For Manzoni, see 851.73 and 853.72.

.61	**Goldoni, Carlo**	1707–1793.
.62	Gozzi, Carlo	1722–1806.
.63	Capacelli Albergati, Francesco	1728–1804.
.64	**Alfieri, Vittorio**	1749–1803.
.65	Nota, Alberto	1775–1847.
.66	Biondi, Luigi	1776–1839.
.67	Benedetti, Francesco	1785–1821.
.69	Minor Dramatists.	

.7 **Early 19th Century, 1814–1859.**

.71	Niccolini, Giovambattista	1782–1861.
.72	Pellico, Silvio	1788–1854.
.73	Giacometti, Paolo	1816–1881.
.74	Gherardi del Testa, Tommaso	1818–1872.
.75	Ferrari, Paolo	1822–89
.79	Minor Dramatists.	

852.8 **Later 19th Century, 1859–**

.81	Bersezio, Vittorio	1830–	
.82	Cossa, Pietro	1833–1882.	
.83	Carrera, Valentino	1834–	
.84	Marenco, Leopoldo	1836–	
.85	Cavallotti, Felice	1842–	
.86	Torelli, Achille	1844–	
.87			
.88			
.89	Minor Dramatists.		

853 Italian Fiction.

.1 Early Italian; Age of Dante, –1375.

.11	"Cento Novelle Antiche" (Gualteruzzi's Collection).		
.12	Barberino, Francesco da	1264–1348.	
.13	Pisa, Guido da	–1350.	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–1375.	
.19	Minor Writers.		

.2 Period of Classical Learning, 1375–1492.

.21	Sacchetti, Franco	–1400.	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423–1497.	
.24	Mangabotti, Andrea dei		
.25	Prato, Giovanni da		
.29	Minor Writers.		

.3 Age of Leo the Tenth, 1492–1542.

.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561.	
.33	Molza, Francesco	1483–1544.	See 851.34.
.34	Firenzuola, Agnolo	1493–1548.	
.39	Minor Writers.		

.4 Later 16th Century, 1542–1585.

.41	Grazzini, Antonfrancesco (Lasca)	1503–1583.	
.42	Doni, Antonfrancesco	1513–1574.	
.43	Erizzo, Sebastiano	1525–1585.	
.44	Giraldi, G. B. Cinzio	1504–1573.	See 852.42.
.45	Parabosco, Girolamo	–1560.	
.49	Minor Writers.		

.5 Period of Decline, 1585–1748.

.6 Period of Renovation, 1748–1814.

853.7 **Early 19th Century, 1814–1859.**

.71	Rosini, Giovanni	1776–1855.	
.72	**Manzoni, Alessandro**	1785–1873.	See 851.73.
.73	Grossi, Tommaso	1791–1853.	
.74	Guerrazzi, Francesco Domenico	–1873.	
.75	Bresciani, Antonio	1798–1862.	
.76	Cantù, Cesare	1807–	
.77	Carcano, Giulio	1812–1883.	
.78	Azeglio, Massimo d'	1800–1866.	
.79	Minor Writers.		

.8 Later 19th Century, 1859–

.81	Castellazzo, Luigi	1827–	
.82	Barrili, Anton Giulio	1836–	
.83	Capuana, Luigi	1839–	
.84	Verga, Giovanni	1840–	
.85	Faldella, Giovanni	1846–	
.86	Farina, Salvatore	1846–	
.87	Giovagnoli, Raffaello		
.88	Serao, Matilde	1856–	
.89	Minor Writers.		

854 Italian Essays.

.1 Early Italian; Age of Dante, –1375.

.11	Cavalca, Fra Domenico	–1342.	
.12	Passavanti, Fra Jacopo	–1357.	

.2 Period of Classical Learning, 1375–1492.

.21	Alberti, Leone Battista	1404–1472.	
.22	Palmieri, Matteo	1405–1475.	
.23	Bisticci, Vespasiano da	1421–1498.	
.24	Collenuccio, Pandolfo	–1504.	
.25	Vinci, Leonardo da	1452–1519.	
.29	Minor Essayists.		

.3 Age of Leo the Tenth, 1492–1542.

.31	Machiavelli, Niccolò	1469–1527.	See 852.31.
.32	Nardi, Jacopo	1476–1555.	
.33	Castiglione, Baldassare	1478–1529.	
.34	Guicciardini, Francesco	1482–1540.	
.35	Giannotti, Donato	1494–1573.	
.36	Giambullari, Pier Francesco	1495–1555.	
.37	Gelli, Giovambattista	1498–1563.	
.38	Varchi, Benedetto	1503–1566.	
.39	Minor Essayists.		

854.4 **Later 16th Century, 1542–1585.**

.41	Castelvetro, Ludovico	1505–1571.
.42	Piccolomini, Alessandro	1508–1578.
.43	Borghini, Vincenzo	1515–1580.
.44	Davanzati, Bernardo	1529–1606.
.45	Salviati, Leonardo	1540–1589.
.46	Ammirato, Scipione	1531–1601.
.47	Paruta, Paolo	1540–1598.
.48	Botero, Giovanni	1540–1617.
.49	Minor Essayists.	

.5 **Period of Decline, 1585–1748.**

.51	Sarpi, Paolo	1550–1623.
.52	Galilei, Galileo	1564–1642.
.53	Bartoli, Daniele	1608–1685.
.54	Dati, Carlo	1619–1675.
.55	Gravina, Giovanni Vincenzo	1664–1718.
.56	Muratori, Ludovico Antonio	1672–1750.
.57	Giannone, Pietro	1676–1748.
.58	Zanotti, Francesco Maria	1692–1777.
.59	Minor Essayists.	

.6 **Period of Renovation, 1748–1814.**

.61	Bettinelli, Saverio	1718–1808.
.62	Denina, Carlo	1730–1813.
.63	Tiraboschi, Girolamo	1731–1794.
.64	Lanzi, Luigi	1732–1810.
.65	Beccaria, Cesare	1735–1793.
.66	Filangeri, Gaetano	1752–1788.
.67	Cesari, Antonio	1760–1828.
.68	Perticari, Giulio	1779–1822.
.69	Minor Essayists.	

.7 **Early 19th Century, 1814–1859.**

.71	Costa, Paolo	1771–1836.
.72	Giordani, Pietro	1774–1848.
.73	Troya, Carlo	1785–1859.
.74	Balbo, Cesare	1789–1853.
.75	Capponi, Gino	1792–1878.
.76	Mamiani della Rovere, Terenzio	1800–1885.
.77	Gioberti, Vincenzo	1801–1853.
.78	Tommaséo, Niccolò	1802–1874.
.79	Minor Essayists.	

.8 **Later 19th Century, 1859–**

.81	Sanctis, Francesco de	1818–
.82	Bonghi, Ruggiero	1827–
.83	Conti, Augusto	1827–
.84	Villari, Pasquale	1827–
.85	Ardigò, Roberto	1828–
.86	Comparetti, Domenico	1835–
.87	Zumbini, Bonaventura	1840–
.88	Panzacchi, Enrico	1841–
.89	Minor Essayists.	

855 Italian Oratory.

856 Italian Letters.

857 Italian Satire and Humor.

.1 **Early Italian; Age of Dante, –1375.**

.11	Gemignano, Folgore da San	
.12	Chitarra, Cene dalla	
.13	Angiulieri, Cecco	
.14	Pucci, Antonio	–1377.
.19	Minor Writers.	

.2 **Period of Classical Learning, 1375–1492.**

.21	Burchiello, Domenico	1395–1448.
.22	Pulci, Luigi	1432–1484.
.23	Vinciguerra, Antonio	
.29	Minor Writers.	

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Folengo, Teofilo (Merlin Cocai)	1491–1544.
.32	Berni, Francesco	1496–1535.
.39	Minor Writers.	

.4 **Later 16th Century, 1542–1585.**

.41	Nelli, Pietro	
.42	Beccuti, Francesco	1509–1553.
.43	Caporali, Cesare	1531–1601.
.49	Minor Writers.	

.5 **Period of Decline, 1585–1748.**

.51	Tassoni, Alessandro	1565–1635.
.52	Bracciolini, Francesco	1566–1645.
.53	Lalli, Giovambattista	1572–1637.
.54	Lippi, Lorenzo	1606–1664.
.55	Rosa, Salvatore	1615–1673.
.56	Menzini, Benedetto	1646–1704.
.57	Sergardi, Ludovico	1660–1726.
.58	Fortiguerri, Niccolò	1674–1735.
.59	Minor Writers.	

.6 **Period of Renovation, 1748–1814.**

.61	Gozzi, Gasparo	1713–1786.
.62	Passeroni, Gian Carlo	1713–1803.
.63	Casti, Giovambattista	1721–1803.
.64	Parini, Giuseppe	1739–1799.
.65	Baretti, Giuseppe	1716–1789.
.66	Elci, Angelo Maria d'	1754–1824.
.67	Pananti, Filippo	1766–1837.
.69	Minor Writers.	

.7 **Early 19th Century, 1814–1859.**

.71	Giusti, Giuseppe	1809–1850.

858 Italian Miscellany.

.8 **Later 19th Century, 1859–**

.81	Gubernatis, Angelo de	1840–
.82	Amicis, Edmondo de	1846–

859 Wallachian Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

.9 Rumansh Literature

Subdivided like 859.

860 Spanish Literature.

860.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

861 Spanish Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Spanish Poetry. of collections

.1 Early Spanish. –1369.

In 711 the Visigothic kingdom, founded in the 5th cent. was overthrown by Arabs; 711–1492 Arabic Period or Age of Reconquest.

Literature began in first half of 12th cent. Earliest poetry, epic; subjects national, themes war and religion (861.11–12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and 14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Through him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 "Primitive Monuments."
.12 **"Poema de mio Cid."**
.13 Berceo, Gonzalo de 1196–1266.
.14 Segura de Astorga, Juan Lorenzo 1250.
.15 Yañez Ruy (Cronica del Rey Alfonso Onceno).
.16 Sem Tob, Rabbí 1350.
.19 Minor Poets.

.2 Age of Imitation. 1369–1516.

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were three distinct schools:

1. Provençal, specially influential at court.
2. Italian (Dante) or Allegorical, introduced by Francisco Imperial, a Genoese. (Mena, 861.22.)
3. Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21).

.21 Lopez de Ayala, Pedro 1332–1407.
.22 Mena, Juan de 1411–1456.
.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458.
.24 Manrique, Jorge 1440–1479.
.25 Los "Cancioneros" } Collections of poetry.
.26 Los "Romances" }
.27 **Romancero del Cid.**

"Romances" popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th cent. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492.

.29 Minor Poets.

861 .3 Golden Age. 1516–1700.

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90: Joanes 1523–79; The Herrera—16th cent.; Ribera 1588–1656; Zurbaran 1598–1662; **Velazquez** 1599–1660; Cano 1601–1667; **Murillo** 1618–1682, etc.

Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death.

Great number of poets. Nothing notable in Epic; Lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of two schools follows in which the Italian wins the major influence. Thereafter appear two new schools:

1. Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
2. Sicilian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of "bad taste" appear; (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. "Bad taste" consisted in artificialities, exaggerations, obscurities, etc.

.31 Vega, Garcilaso de la 1503–1536.
.32 Castillejo, Cristóbal de 1494–1596.
.33 Leon, Luis Ponce de 1528–1591.
Leon is equally important in prose.
.34 Los Argensolas: Lupercio, 1563–1613; Bartolomé Leonardo 1564–1631.
.35 Herrera, Fernando de 1534–1597.
.36 Mendoza, Diego Hurtado de 1503–1575.
.37 Góngora y Argote, Luis de 1561–1627.
.38 Rioja, Francisco de 1600–1659.
.39 Minor Poets.

.4 18th century. 1700–1800.

At death of Carlos 2nd (1700) war of succession resulted in firm establishment of House of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, "bad taste" every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish Academy, 1714), and doctrinal reform in French sense, proclaimed by Luzan (1702–54) in "La Poetica," etc. Thereafter a kind of revival. Three schools formed:

1. Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44).
2. Antique National, protesting against introduction of French taste. Huerta (861.43).
3. Salamanca School, an attempt to reconcile the first two, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). "Prosaism" production of exaggerated opposition to Gongorism or "bad taste" also characterizes period. Influence of French Encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism.

Rich development of fables and apologues in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty.

.41 Moratin (The elder), Nicolás Fernandez de 1737–1780.
.42 Cadalso, José de 1741–1782.
.43 Huerta, Vicente Antonio García de la 1734–1787.
.44 Samaniego, Félix María de 1745–1801.
.45 Yriarte, Tomás de 1750–1791.
.46 Valdés, Juan Melendez 1754–1817.
.47 Iglesias de la Casa, José 1748–1791.
.48 Cienfuegos, Nicasio Álvarez de 1764–1809.
.49 Minor Poets.

861.5 **19th century.** **1800–**

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) quelled. Isabella driven from throne by revolution 1868; 1871–Amadeo (Savoy house), 1873, abdicates and republic is proclaimed; Restoration of monarchy in person of Alfonso 12th in 1875.

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism re-introduced and revolution followed. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awaking with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53).

.51 Quintana, Manuel José 1772–1857.
.52 Espronceda, José de 1810–1842.
.53 Zorrilla y Moral, José 1817–90
.54 Gutierrez, Antonio García 1812–
.55 Gil y Zárate, Antonio 1792–1861.
.56 Hartzembusch, Juan Eugenio 1806–1880.
.59 Minor Poets.

862 Spanish Drama.

.2 **Age of Imitation.** **1369–1516.**

Evidences of existence of "mysteries" but no remains.

.21 Enzina, Juan del (?)1468–1534.
.22 Vicente, Gil (?)1450–1536.

.3 **Golden Age.** **1516–1700.**

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 "Lope" had written 1500 dramas), 30,000 dramas composed by beginning of 18th cent. At opening of period Church tried to check development of profane drama placing nearly all in the "Index." Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence.

.31 **Vega Carpio, Lope Felix de** 1562–1635.
.32 Cāstro y Bēlvis Guillen de 1567–1621.
.33 Tellez, Gabriel (Tirso de Molina, pseud. (?)1570–1648.
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639.
.35 **Calderon de la Barca, Pedro** 1600–1681.
.36 Rojas y Zorrilla, Francisco de 1607–
.37 Moreto y Cabaña, Agustin 1618–1669.
.39 Minor Dramatists.

.4 **18th Century.** **1700–1800.**

Complete decadence of drama in last years of old monarchy. Revival in 18th cent., following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National School voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of writers, Comella (862.41)-Period of unrest; old ideas cannot be reëstablished, new cannot be naturalized.

For Moratin the elder, see 861.41 and Huerta, 861.43.

.41 Comella, Luciano Francisco 1716–1779.
.42 Moratin, Leandro Fernandez de 1760–1828.
.43 Cruz, Ramon de la (Light comedies) 1731–1795.
.49 Minor dramatists.

.5 **19th Century.** **1800–**

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent "romantic" movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56.

.51 Martinez de la Rosa, Francisco 1789–1862.
.52 Rodriguez Rubí, Tomas 1817–
.53 Breton de los Herreros, Manuel 1796–
.59 Minor dramatists.

863 Spanish Fiction.

.2 **Age of Imitation.** **1369–1516.**

Immense vogue of books of chivalry despite legislation till publication of Don Quijote; thereafter only one written. [First part of Quijote printed 1605.]

.21 "Books of Chivalry."
.22 **"Amadis de Gaula."**
.23 "Celestina."

.3 **Golden Age.** **1516–1700.**

Real novel replaces old books of chivalry about 1500. "Picaresca," or "rogue" novel characteristic of this period; a result of the state of society following wars of Charles 1st and Phillip 2d, e. g. Mendoza's "Lazarillo de Tormes." For Mendoza, see 861.36.

.31 Montemayor, Jorge de 1520–1561.
.32 **Cervantes Saavedra, Miguel de** **1547–1616.**
.39 Minor novelists.

.4 **18th Century.** **1700–1800.**

.5 **19th Century.** **1800–**

For Breton de los Herreros, see 862.53; and Rodriguez Rubí, 862.52.

.51 Larra, Mariano José de [Figaro] 1809–1837.
.52 Romanos, Ramon Mesonero de 1803–
.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1877.
.59 Minor writers.

864 Spanish Essays.

865 Spanish Oratory.

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrained. Sacred eloquence less employed by Spanish church than by French or English. Gongorism or "bad taste" conquers here as elsewhere.

.1 **Early Spanish.** **–1369.**

.2 **Age of Imitation.** **1369–1516.**

.3 **Golden Age.** **1516–1700.**

For Luis de Leon, see 861.33; and Luis de Granada, 868.32.

.4 **18th Century.** **1700–1800.**

For Jovellanos, see 868.42; and Valdés, 861.46.

.5 **19th Century.** **1800–**

.51 Olozaga, Salustiano de 1803–1873.
.52 Castelar, Emilio 1832–

866 Spanish Letters.

.3 **Golden Age.** **1516–1700.**

Naturalness of old times changed with majestic court and rigid etiquette of Charles 5th. For Santa Teresa, see 868.33.

.31 Avila, Juan de 1502–1569.
.32 Perez, Antonio 1540–1611.
.39 Minor writers.

867 Spanish Satire.

.1 **Early Spanish.** –1369.

Ruiz, Juan (Arcipreste de Hita) 1350.

.2 **Age of Imitation.** 1369–1516.

"Coplas de Mingo Revulgo."

.3 **Golden Age.** 1516–1700.

Quevedo Villegas, Francisco Gomez de 1580–1645.

.4 **18th Century.** 1700–1800.

For Cadalso, see 861.42; and Moratin the younger, 862.42.

.41 Jorge Pitillas (a pseudonym).

.42 Isla, José Francisco de (el Padre) 1703–1781.

868 Spanish miscellany.

.1 **Early Spanish.** –1369.

.11 Alfonso X., El Sábio 1221–1284.

.12 Sancho El Bravo (IV. of Castile) 1258–1295.

.13 Manuel, Juan 1282–1347.

.14 Alfonso XI. 1310–1350.

.19 Minor writers.

.2 **Age of Imitations.** 1369–1516.

General and special histories, books of travel, works called forth by Boccacio's "Corvaccio," etc.

.3 **Golden Age.** 1516–1700.

Didactic prose. Considerable development, though less than poetry, owing in a great measure to restraints political and religious. "Bad Taste" manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representatives of Mystic School.

For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3.

.31 Mariana, Juan de, Founder of Spanish History 1536–1623.

.32 Granada, Luis de 1504–1588.

.33 Teresa de Jesús, Santa 1513–1582.

.34 Cruz, San Juan de la 1542–1591.

.35 Rivadeneyra, Pedro de 1527–1611.

.36 Saavedra Fajardo, Diego de 1584–1648.

.39 Minor Writers.

.4 **18th Century.** 1700–1800.

Under Carlos 3d (1759–'88) scientific studies took a fresh start, due largely to Feijóo who attempted intellectual emancipation of Spain. Prose advances under French influence — Gallicisms introduced.

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764.

.42 Jovellanos, Gaspar Melchor de 1744–1811.

.49 Minor writers.

.5 **19th Century.** 1800–

For Hartzembusch, J. E., see 861.56.

.51 Gayangos, Pascual de 1809–

.52 Rios, José Amador de los 1818–1878.

.53 Milá y Fontanals, Manuel 1818–

.59 Minor writers.

869 Portuguese Literature.

.1, Poetry; .2, Drama; .3. Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

870 Latin Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

.1 **Lucretius Carus, Titus.** See also 187.

.2 **Ovid. (Publius Ovidius Naso.)**

.3 **Hyginus, Caius Julius.**

.4 **Faliscus, Gratius.**

.5 **Manilius, Marcus.**

.6 **Phædrus.**

.7 **Lucilius Junior. "Ætna."**

.8

872 Latin Drama.

.1 **Andronicus, Livius.**

.2 **Nævius, Cnæus.**

.3 **Plautus, Titus Maccius.**

.4 **Ennius.**

.5 **Terence. (Publius Terentius Afer.)**

.6 **Seneca, Lucius Annæus.** See also 878.5.

.7

873 Latin Epic Poetry.

.1 **Virgil. (Publius Virgilius Maro.)**

.2 **Lucanus, Marcus Annæus.**

.3 **Flaccus, Caius Valerius.**

.4 **Silius Italicus, Caius.**

.5 **Statius, Publius Papinius.**

.6

874 Latin Lyric Poetry.

.1 **Catullus, Tibullus and Propertius.**

.2 **Catullus, Valerius.**

.3 **Tibullus, Albius.**

.4 **Propertius, Sextus Aurelius.**

.5 **Horace. (Quintus Horatius Flaccus.)** See also 877.3

.6 **Calpurnius Siculus.**

.7

875 Latin Oratory.

.1 Cicero, Marcus Tullius. Complete Works.
For Cicero's Letters see 876.1.
.2 Orations.
.3 Rhetorical Works.
.4 Philosophical Works. See also 186.3.
.5 Messala Corvinus, Marcus Valerius.
.6 Quintilian. (Marcus Fabius Quintilianus.)
.7

876 Latin Letters.

.1 Cicero, Marcus Tullius. For his other works see 875.1–875.4.
.2 Pliny. (Caius Plinius Cæcilius Secundus.)
.3 Fronto, Marcus Cornelius.
.4

877 Latin Satire and Humor.

.1 Lucilius, Caius.
.2 Cato, Valerius.
.3 Horace. See 874.5.
.4 Persius Flaccus, Aulus.
.5 Petronius Arbiter, Caius.
.6 Martial. (Marcus Valerius Martialis.)
.7 Juvenal. (Decimus Junius Juvenalis.)

878 Latin Miscellany.

.1 Cæsar, Caius Julius.
.2 Sallust. (Caius Sallustius Crispus.)
.3 Nepos, Cornelius.
.4 Livy. (Titus Livius Patavinus.)
.5 Seneca, Lucius Annæus. See also 872.6 and 188.6.
.6 Tacitus, Caius Cornelius.
.7 Suetonius Tranquillus, Caius.
.8 Curtius Rufus, Quintus.
.9 Minor Writers.

879 Mediæval and Modern Latin.

Subdivided like 820. .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

880 Greek Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on Greek Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Greek Literature.

881 Greek Poetry in General.

See Dramatic, Epic, and Lyric, below.

.1 Theognis.
.2 Aratus.
.3 Lycophron.
.4 Babrius.

882 Greek Dramatic Poetry. 9. Herondas.

.1 Æschylus.
.2 Sophocles.
.3 Euripides.
.4 Aristophanes.
.5 Epicharmus.
.6 Menander.

883 Greek Epic Poetry.

.1 Homer.
.2 Hesiod.
.3 Apollonius Rhodius.
.4 Oppian.
.5 "Orphic Poems."

884 Greek Lyric Poetry.

.1 Tyrtæus.
.2 Sappho.
.3 Anacreon.
.4 Simonides of Ceos.
.5 Pindar.
.6 Theocritus.
.7 Bion.
.8 Callimachus.
.9 Minor Greek Lyric Poets.

885 Greek Oratory.

.1 Andocides.
.2 Lysias.
.3 Isæus.
.4 Isocrates.
.5 Æschines.
.6 Demosthenes.
.7 Hyperides.
.8 Lycurgus.
.9 Minor Greek Orators.

886 Greek Letters.

.1 Themistocles.
.2 Alciphron.
.3 Phalaris.

887 Greek Satire and Humor.

For Comedies of Aristophanes see 882.4.

.1 Archilochus.
.2 Simonides of Samos.
.3 Hipponax.

888 Greek Miscellany.

.1 Herodotus.
.2 Thucydides.
.3 Xenophon.
.4 Plato. See 184.1, Platonic Philosophy.
.5 Aristotle. See 185.1, Aristotelian Philosophy.
Or if preferred the works of Plato and Aristotle may be put in 184.1, and 185.1
.6 Æsop.
.7 Lucian.
.8 Plutarch. See also 186.2.
.9 Minor Writers.

889 Medieval and Modern Greek.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

890 Literature of Minor Languages.

Subdivided like 490, Philology of Minor Languages. If wished the .1, Poetry; .2, Drama, etc., numbers can be used after the language number. e. g., Russian Drama is 891.72; Hebrew Poetry 892.41; Bengali Poetry 891.441.

History.

900 History in General.

901–909 all have *History in General* as their subject, but it is treated in these various *forms*. A periodical on English History goes with 942, not 905, which is only for periodicals on History in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

901 Philosophy, Theories, etc. History of Civilization.

902 Compends, Chronologies, Charts, Outlines.
For Chronology as a Science, see 529.

903 Dictionaries, Cyclopedias, etc.

904 Essays, Lectures, Addresses.

905 Periodicals, Historical Magazines.

906 Societies, Transactions, etc.

907 Education, Methods of Teaching, Writing, etc.
See also 371.3.

908 Polygraphy, Collected Works, Extracts, etc.

909 Universal and General Modern Histories.
For General Ancient Histories, see 930.

.1	A. D. 476—1199.	.5	1500—1599.
.2	1200—1299.	.6	1600—1699.
.3	1300—1399.	.7	1700—1799.
.4	1400—1499.	.8	1800—1899.

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.
For map projection, see 526.9. See also 310 Statistics, 390 Customs and Costumes.
For Directories, Guide Books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914–919.

.1
.2 Traveler's Manuals, Guidebooks.
.3 Dictionaries, Gazetteers.
.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.
.5 Periodicals.
.6 Societies.
.7 Study and Teaching of Geography. School Map Drawing.
See 372.8, Primary Teaching of Geography.
.8 Collections of Travels, etc.
.9 History of Geography, Travels, Explorations, etc.

911 Historical. Growth and Changes in Political Divisions, etc. Subdivided like 930-999.

912 Maps, Atlases, Plans of Cities, etc. Subdivided like 930-999.

913 Antiquities, Archæology, of Special Countries.

See also 220.93, biblical antiquities; 340.3, legal antiquities; 571, prehistoric archæology; 930, ancient history; 390, special customs. 913 is divided like 930-999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African.

914 Europe.

915 Asia.

916 Africa.

917 North America.

918 South America.

919 Oceanica and Polar Regions.

914-919 is subdivided like 940-999. Whenever these main geographical headings occur they may be subdivided exactly like History. The full list of sub-heads is printed only under 940-999. In assigning numbers to travels, use the history tables, and *insert 1 after the initial* 9, and move the decimal point; e. g. Guide to N. Y. City is 917.471, for N. Y. in history tables is 974.71.

920 Biography.

Including Autobiography, Diaries, Personal Narratives, Eulogies, Biographical Dictionaries, &c. All Biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i. e., the biography of science is divided like science itself, see 500-599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, &c. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.

Another plan is to scatter biography with the other books, leaving 920-928 blank, or using them only for general works, cross references, &c. This simply omits the first two figures 92, and the life of a botanist is 580 instead of 925.8, and goes with the botanical books.

Lives which will not go under any head without "forcing" are best put in a single alphabet under the three figures 920 for men and 920.7 for women.

General and Collective by Localities.

Including only collected lives too general to go under any subject heading.

.01 Universal.
.02 Partial Collections not limited to any special country or subject.
.03 Ancient.
.04 Of Europe.
.05 „ Asia.
.06 „ Africa.
.07 „ North America.
.08 „ South America.
.09 „ Oceanica.

Individual and Collective by Subjects.

920.1 **Bibliographers.**
.2 **Librarians.**
.3 **Encyclopædists.**
.4 **Publishers. Booksellers.**
.5 **Journalists.**
.6 **Academicians.**
.7 **Women.** Collected, and individual lives not clearly going with any subject.
.8 **Eccentrics, Cranks, Fools, Insane, &c.** See also 132.1, Insanity.
.9 **Other special classes not included in 921-928, e. g., Phrenologists, Somnambulists, Mind Readers, Magicians, &c.**

921 Of Philosophy.

.1 **American.**
.2 **English. Scotch.**
.3 **German.**
.4 **French.**
.5 **Italian.**
.6 **Spanish.**
.7 **Slavic.**
.8 **Scandinavian and Other Modern.**
.9 **Ancient. Oriental. Patristic. Scholastic.** See 180-189.

922 Of Religion. Clergy, Missionaries, Preachers.

922.1-922.88 may be subdivided for nationality like 930-999.

.1 **Primitive (Apostles, Fathers, &c.), Oriental, Greek, Russian.** See 225.92, New Testament biography.
.2 **Roman Catholic. Popes, Cardinals, &c.**
.21 Lives of popes.
.3 **Anglican and Protestant Episcopal.**
.4 **Continental Protestant. Lutheran, Huguenot.**
.5 **Presbyterian and Congregational.**
.6 **Baptist.**
.7 **Methodist.**
.8 **Unitarian, Universalist, and other.**
.81 Unitarian. Universalist.
.82 Campbellite.
.83 Adventist.
.84 New church or Swedenborgian.
.85 Catholic apostolic.
.86 Quaker.
.87 Mennonite.
.88 Shaker.
.89 Other minor Christian sects.

922.9 **Non-Christian. Atheists.**
- .91 Atheists.
- .92
- .93
- .94 Brahman. Buddhist.
- .95 Parsee.
- .96 Jews.
- .97 Mohammedan.
- .98 Mormon.
- .99 **Minor non-Christian religions.**

923 Of Sociology.

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g., the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551.

- .1 **Chief Rulers. Kings, Queens, Emperors, Presidents.**
- .2 **Political Science. Legislative Dept., Governors, Politicians, Statesmen, Nobles, &c.** For slaves, see 326.92.
- .3 **Political Economy. Bankers, Capitalists, Financiers.**
- .4 **Law. Judiciary Dept., Lawyers, Judges.**
  - .41 Criminals.
- .5 **Administration. Army and Navy, Civil Service.**
- .6 **Associations and Institutions. Philanthropists, &c.**
- .7 **Education. Teachers, School Officers, Educators.**
- .8 **Commerce and Communication. R. R. Officials, Merchants, &c.**
- .9 **Manners and Customs. Society, Travelers, Discovery.**

924 Of Philology.
925 „ Science.
926 „ Useful Arts.
927 „ Fine Arts.
928 „ Literature.

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g., in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g., a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7.

In adding figures for the subdivisions of Literature (as in 810–899) Historians are put with miscellaneous authors as 8, i. e., Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet.

929 Genealogy and Heraldry.

- .1 **Genealogies.**
- .2 **Families.**
- .3 **Registers of Births, Baptisms, Marriages, Deaths.**
- .4 **Names of Persons and Places.**
- .5 **Epitaphs.**

929.6 **Heraldry.**

- ·7 **Peerage, precedence, titles of honor.**
  - ·71 **Orders of knighthood.**
    - ·711 St. John of Jerusalem.
    - ·712 Templars.
    - ·713 Teutonic knights.
    - ·714 Garter.
    - ·715 Golden Fleece.
    - ·716 Holy Ghost.
    - ·717
    - ·718
    - ·719
  - ·72 **Great Britain and Ireland.**
    - ·721 Peerage.
    - ·722 Baronetage.
    - ·723 Knightage.
    - ·724 Dignities, precedence.
    - ·725 Landed gentry.
    - ·726 Visitations. Alphabeted by counties.
  - ·73 **Germany**
  - ·74 **France**
  - ·75 **Italy**
  - ·76 **Spain**
  - ·77 **Russia**
  - ·78 **Scandinavia**

  } Divided like 929.72.
  - ·79 **Minor countries.**

    Divided like 949; minor countries outside Europe are put together in 929.700.
- .8 **Coats of Arms, Crests.**
- ·9 **Flags.**

930 Ancient History. To A. D. 476.

931 China.

932 Egypt.

933 Judea.

934 India.

935 Medo-Persia.

- .1 Chaldæa.
- .2 Assyria. Nineveh.
- .3 Media.
- .4 Babylonia.
- .5 Persia.
- .6 Parthia.
- .7 New Persian or Sassanian.
- .8 Mesopotamia.
- .9 Susiana.

936 Kelts.

937 Rome. Italy.

Period Divisions.

.01	Kings.	753–509	B. C.
.02	Republic.	509– 31	„
.03	Conquest of Italy.	509–264	„
.04	Punic Wars.	264–146	„
.05	Civil Strife.	146– 31	„
.06	Empire.	31 B. C.–476	A. D
.07	Constitutional.	31 „ –284	„
	Augustus—Illyrian Emperors.		
.08	Absolute.	284–476	„
.09	Division of Empire.	395–476	„
	Barbarian Conquests and Fall of Western Empire.		

Geographical Divisions.

- .1 Liguria.
- .2 Gallia Cisalpina.
- .3 Venetia. Istria.
- .4 Umbria. Picenum. Sabini, etc.
- .5 Etruria.
- .6 Latium, Rome.
- .7 Southern Italy: Campania, Samnium, Apulia, etc.
- .8 Sicily, Syracuse.
- .9 Sardinia. Corsica.

938 Greece.

Period Divisions.

.01	Mythical Age.	To 776	B. C.
.02	Growth of States.	775–500	„
.03	Persian Wars. Union of Greece.	500–479	„
.04	Athenian Supremacy.	479–431	„
.05	Peloponnesian War.	431–404	„
.06	Spartan and Theban Supremacy.	404–362	„
.07	Macedonian Supremacy.	362–323	„
.08	Roman Conquest of Greece.	323–146	„
.09	Greek Subjection.	146 B. C.–323	A. D.

Byzantine Empire is put 949.5.

Geographical Divisions.

- .1 Macedonia.
- .2 Thessaly. Epirus.
- .3 Acarnania. Ætolia. Locris. Doris. Phocis. Ithaca.
- .4 Bœotia. Megaris. Eubœa.
- .5 Attica.
- .6 Peloponnesus.
- .7 Corinthia. Achaia.
- .8 Elis. Arcadia. Argolis.
- .9 Messenia. Laconia. Sparta.

939 Minor Countries.

- .1 Grecian Archipelago.
  - .11, Northern Islands: Thasos, Lemnos, etc.; .12, Lesbos; .13, Chios, etc.; .14, Samos, etc.; .15, Cyclades; .16, Rhodes, etc.; .17, Carpathos; .18, Crete.
- .2 Western Asia Minor.
  - .21, Mysia, Troas; .22, Lydia; .23, Ionia; .24, Caria; .25, Bithynia; .26, Phrygia; .27, Pisidia; .28, Lycia; .29, Pamphylia.
- .3 Eastern Asia Minor.
  - .31, Paphlagonia; .32, Galatia; .33, Pontus; .34, Cappadocia; .35, Cilicia; .36, Commagene; .37, Cyprus.
- .4 Syria.
  - .41, Upper Syria; .42, Cœle Syria; .43, Palmyra; .44, Phenicia, Tyre; .45, Palestine: Hittites, Philistines, etc.; .46, Edom, Moab, Bashan, etc.; .47, Arabia; .48, Arabia Petræa, Sinai.
- .5 North Western Asia.
  - .51, Scythia; .52, Sarmatia Asiatica; .53, Colchis; .54, Iberia; .55, Armenia; .56, Albania.
- .6 South Central Asia.
  - .61, Sogdiana; .62, Hyrcania; .63, Margiana; .64, Bactriana; .65, Ariana.
- .7 Minor African Countries.
  - .71, Mauritania; .72, Numidia; .73, Africa Propria, Carthage; .74, Syrtica Regio; .75, Cyrenaica; .76, Marmarica; .77, Libya, Gætulia; .78, Æthiopia.
- 8 South Eastern Europe.
  - .81, Sarmatia Europa; .82, Dacia; .83, Vindelicia; .84, Rhætia; .85, Noricum; .86, Pannonia; .87, Illyria; .88, Mœsia; .89, Thracia.

Modern History.

940 Europe.

From the fall of Western Empire (Rome), A. D. 476.

.1	**Medieval Europe.**	476–1453.
	For Byzantine Empire see 949.5.	
.2	**Rise of New Nations.**	476–800.
.3	**Age of Feudalism.**	800–1100.
	See 321.3.	
	Charlemagne. 768–814.	
	Norman Conquests.	
.4	**Age of Chivalry.**	1100–1453.
	The Crusades. To fall of Eastern Empire (Constantinople). 1453.	
	For Church History see 270.4–270.5.	
.5	**Modern Europe.**	1453——
.6	**The Renaissance Period.**	1453–1517.
	Discoveries and Inventions.	
.7	**Age of the Reformation.**	1517–1789.
	The 30 Years' War. 1618–1648.	
.8	**Napoleonic Period.**	1789–1815.
.9	**Current History.**	1815——

941 Scotland.

Period Divisions.

.01	Gaelic Period.	–1097.
.02	English Period.	1097–1314.
	Struggle for National Freedom.	
.03	Independent Kingdom.	1314–1424.
.04	The Jameses.	1424–1557.
.05	Reformation.	1557–1603.
.06	Union of Crowns and Parliaments.	1603–1707.
.07	Hanover.	1707–1837.
.08	Victoria.	1837–
.09		

Geographical Divisions.

.1 Northern Scotland.

.11, Shetland; .12, Orkney; .13, Caithness; .14, Sutherland; .15, Cromarty; .16, Ross; .17, Hebrides.

.2 North Central Scotland.

.21, Inverness; .22, Nairn; .23, Elgin; .24, Banff; .25, Aberdeen; .26, Kincardine.

.3 South Central Scotland.

.31, Forfar; .32, Perth; .33, Fife; .34, Kinross; .35, Clackmannan; .36, Sterling; .37, Dunbarton; .38, Argyll; .39, Bute.

.4 Southern Scotland.

.41, Renfrew; .42, Ayr; .43, Lanark; .44, Linlithgow, Edinburgh; .45, Haddington, Berwick; .46, Peebles, Selkirk; .47, Roxburgh; .48, Dumfries; .49, Kirkcudbright, Wigton.

941.5 Ireland.

Period Divisions.

.51	Early History.	–1086.
.52	Separate Kingdoms.	1086–1172.
	Conquest by Henry II.	
.53	Plantagenet.	1172–1399.
.54	Lancaster and York.	1399–1485.
.55	Tudors.	1485–1603.
.56	Stuarts.	1603–1691.
	Closing with Treaty of Limerick.	
.57	Hanover.	1691–1801.
	Closing with the Union.	
.58	19th Century.	1801–
.59		

Geographical Divisions.

.6 Ulster.

.61, Antrim; .62, Londonderry; .63, Donegal; .64, Tyrone; .65, Down; .66, Armagh; .67, Monaghan; .68, Fermanagh; .69, Cavan.

.7 Connaught.

.71, Leitrim; .72, Sligo; .73, Mayo; .74, Galway; .75, Roscommon.

.8 Leinster.

.81, Longford, West Meath; .82, Meath, Louth; .83, Dublin; .84, Wicklow; .85, Kildare; .86, King's Co.; .87, Queen's Co.; .88, Carlow, Wexford; .89, Kilkenny.

.9 Munster.

.91, Waterford; .92, Tipperary; .93, Clare; .94, Limerick; .95, Cork; .96, Kerry.

942 England.

Period Divisions.

For specially minute work the 6th figure printed for each sovereign may be used; e. g., Henry VII is 942.051.

.01	Anglo-Saxon.	B. C. 55–A. D. 1066.
	Prehistoric, Roman, British, Danish.	
.02	Norman.	1066–1154.
	1, William I. 1066–1087; 2, William II. 1087–1100; 3, Henry I. 1100–1135; 4, Stephen 1135–1154.	
.03	Plantagenet.	1154–1399.
	1, Henry II. 1154–1189; 2, Richard I. 1189–1199; 3, John 1199–1216; 4, Henry III. 1216–1272; 5, Edward I. 1272–1307; 6, Edward II. 1307–1327; 7, Edward III. 1327–1377; 8, Richard II. 1377–1399.	

942 .04 Lancaster and York. 1400–1485.

1, Henry IV. 1399–1413; 2, Henry V. 1413–1422; 3, Henry VI. 1422–1461; 4, Edward IV. 1461–1483; 5, Edward V. 1483; 6, Richard III. 1483–1485.

.05 Tudor. 1485–1603.

1, Henry VII. 1485–1509; 2, Henry VIII. 1509–1547; 3, Edward VI. 1547–1553; 4, Mary 1553–1558; 5, Elizabeth 1558–1603. See 272.7.

.06 Stuart. 1603–1714.

1, James I. 1603–1625; 2, Charles I. 1625–1649; 3, Commonwealth 1649–1653; 4, Oliver Cromwell 1653–1658; 5, Richard Cromwell 1658–1659; 6, Charles II. 1660–1685; 7, James II. 1685–1688; 8, William III. 1689–1702; 9, Anne 1702–1714.

.07 Hanover. 1714–1837.

1, George I. 1714–1727; 2, George II. 1727–1760; 3, George III. 1760–1820; 4, George IV. 1820–1830; 5, William IV. 1830–1837.

.08 Victoria. 1837–

Geographical Divisions.

.1 **Middlesex. London.**

.2 **Southeastern.**

.21, Surrey; .23, Kent; .25, Sussex; .27, Hants; .28, Isle of Wight; .29, Berks.

.3 **Southwestern.**

.31, Wilts; .33, Dorset; .34, Channel Islands; .35, Devon; .37, Cornwall; .38, Somerset.

.4 **West Midland.**

.41, Gloucester; .43, Monmouth; .44, Hereford; .45, Salop; .46, Stafford; .47, Worcester; .48, Warwick.

.5 **North and South Midland.**

.51, Derby; .52, Notts; .53, Lincoln; .54, Leicester, Rutland; .55, Northampton; .56, Huntington, Bedford; .57, Oxford, Buckingham; .58, Hertford; .59, Cambridge.

.6 **Eastern.**

.61, Norfolk; .64, Suffolk; .67, Essex.

.7 **Northwestern and Yorkshire.**

.71, Cheshire; .72, Lancashire; .74, Yorkshire.

.8 **Northern.**

.81, Durham; .82, Northumberland; .85, Cumberland; .88, Westmoreland; .89, Isle of Man.

.9 **Wales.**

.91, Anglesey; .92, Carnarvon, Merioneth; .93, Denbigh, Flint; .94, Montgomery; .95, Cardigan; .96, Radnor, Breeknock; .97, Glamorgan; .98, Carmarthen; .99, Pembroke.

943 Germany and Austria.

Period Divisions.

.01 Formative Period.

Wars with Rome. Charlemagne 800–814; Louis I 814–840; Lothaire I 840–843.

.02 Empire before the Reformation.

1, **Carolingian,** 843–911: Louis II 843–876; Charles II 876–877; Charles III 877–887; Arnulf 887–899; Louis III 900–911.

2, House of Franconia: Conrad I 911–918; House of **Saxony,** 919–1024: Henry I 919–936; Otto I 936–973; Otto II 973–983; Otto III 983–1002; Henry II 1002–1024.

3, House of **Franconia,** 1024–1125: Conrad II 1024–1039; Henry III 1039–1056; Henry IV 1056–1106; Henry V 1106–1125; House of Saxony: Lothaire II 1125–1137.

4, House of **Hohenstaufen,** 1137–1197: Conrad III 1138–1152; Frederick I 1152–1190; Henry VI 1190–1197.

5, House of **Hohenstaufen** and **Interregnum,** 1198–1272: Philip 1198–1208; Otto IV 1208–1212; Frederick II 1212–1250; Conrad IV 1250–1254; William of Holland 1254–1256; Richard of Cornwall 1256–1272.

6, Houses of **Hapsburg, Luxemburg,** etc., 1273–1378: Rodolph I 1273–1291; Adolphus 1291–1298; Albert I 1298–1308; Henry VII 1308–1313; Louis IV 1313–1347; Charles IV 1347–1378.

7, **Interregnum,** 1378–1437: Wenceslaus 1378–1400; Rupert 1400–1410; Sigismund 1410–1437.

8, Albert II 1438–1439; Frederick III 1440–1493.

9, Maximilian I 1493–1519.

.03 Reformation to 1618. 1517–1618.

1, Charles V 1519–1556; 2, Ferdinand I 1556–1564; 3, Maximilian II 1564–1576; 4, Rodolph II 1576–1612; 5, Matthias 1612–1619.

.04 Disintegration. 1618–1705.

1, Thirty Years' War 1618–1648; 2, Ferdinand II 1619–1637; 3, Ferdinand III 1637–1657; 4, Leopold I 1658–1705.

.05 Rise of Prussia. Frederick the Great (1712-86) 1705–1789.

1, Joseph I 1705–1711; 2, Charles VI 1711–1740; 3, 1740–1742; 4, Charles VII 1742–1745; 5, Francis I 1745–1765; 6, *Seven Years' War 1756–1763;* 7, Joseph II 1765–1790.

.06 Napoleonic Wars. 1789–1815.

Leopold II 1790–1792; Francis II 1792–1806; Confederation of the Rhine 1806–1815.

.07 Reorganization. 1815–1866.

.08 New German Empire. 1866–

1, North German Confederation 1866–1871; 2, Franco-German War 1870–1871; 3, William I 1871–88; 4, Frederick 1888; William II 1888–

Geographical Divisions of Germany and Austria.

943.1 **Prussia and Northern Germany.**

943 .11, East Prussia; .12, West Prussia; .13, Posen; .14, Silesia; .15, Brandenburg; .16, Pomerania; .17, Mecklenburg and Lubeck; .18, Prussian Saxony; .19, Anhalt.

.2 **Central Germany.**

.21, Saxony; .22, **Thuringia;** .23, Saxe-Weimar; .24, Saxe-Altenburg; .25, Saxe-Gotha-Coburg; .26, Saxe-Meiningen; .27, Schwartzburg; .28, Reuss.

943.3 **Bavaria.**

.31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Suabia.

.4 **Southern Germany.**

.41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurtemburg; .48, *Black Forest* and *Danube*; .49, Hohenzollern.

.5 **Northwest Germany.**

.51, Schleswig-Holstein and Hamburg; .52, Oldenburg and Bremen; .53, Hanover; .54, Brunswick; .55, Lippe; .56, Westphalia; 57, Waldeck; .58, Hesse-Nassau.

943.6 Austria.

.61, Lower Austria; .62, Upper Austria; .63, Salzburg; .64, Tyrol; 65, Styria; .66, Carinthia; 67, Carniola; .68, Istria; .69, Dalmatia.

.7 **Bohemia, etc.**

.71, Bohemia; .72, Moravia; 73, Silesia; .74, Galicia; .75, Bukowina.

.8 **Poland.** Including the history before the division.

.9 **Hungary, etc.**

.91, Hungary; .92, Transylvania; .93, Slavonia; .94, Croatia, Fiume; .95 Bosnia; .96, Herzegovina.

944 France.

Period Divisions.

.01 Early History. -987.

Ancient Celts -59 B. C.; Roman Dominion 59 B. C.-418 A. D.; Merovingian Dynasty 428-752; Carolingian 752-987.

.02 Capet and Valois. 987-1589.

House of **Capet.**

1, Hugh Capet 987-996; Robert II 996-1031; Henry I 1031-1060.

2, Philip I 1060-1108; Louis VI 1108-1137; Louis VII 1137-1180.

3, Philip II 1180-1223; Louis VIII 1223-1226; Louis IX 1226-1270.

4, Philip III 1270-1285; Philip IV 1285-1314; Louis X 1314-1316; John I 1316; Philip V 1316-1322; Charles IV 1322-1328.

House of **Valois.**

5, Philip VI 1328-1350; John II 1350-1364; Charles V 1364-1380.

6, Charles VI 1380-1422; Charles VII 1422-1461.

7, Louis XI, 1461-1483; Charles VIII 1483-1498; Louis XII 1498-1515.

House of **Angoulême.**

8, Francis I 1515-1547; Henry II 1547-1559.

9, Francis II 1559-1560; Charles IX 1560-1574; Henry III 1574-1589.

.03 **Bourbon.** 1589-1789

1, Henry IV 1589-1610; 2, Louis XIII 1610-1643; 3, Louis XIV 1643-1715; 4, Louis XV 1715-1774; 5, Louis XVI 1774-1789.

.04 Revolution. 1789-1804.

1, National Assembly 1789-1792; 2, First Republic 1792-1799; 3, Convention, 1792-1795; 4, Reign of Terror; May 1793-July 1794; 5, Directory 1795-1799; 6, First Consulate, Napoleon, 1799-1804.

.05 First Empire. 1804-1815.

Napoleon I 1804-1814; Louis XVIII 1814-1815; The Hundred Days March 20-June 29, 1815.

944.06 Restoration. 1815-1848.

1, Louis XVIII 1815-1824; 2, Charles X 1824-1830; 3, Louis Philippe 1830-1848.

.07 Second Republic and Second Empire. 1848-1870.

Revolution of 1848; Second Republic, Louis Napoleon, Pres., 1848-1852, Napoleon III 1852-1870.

.08 Third Republic. 1870-

Franco-German War, Government of National Defence 1870-1871; National Assembly 1871; Presidency of Thiers 1871-1873; McMahon 1873-1879; Grévy 1879-87; Sadi-Carnot 1887-

Geographical Divisions of France.

944.1 **Brittany. Maine. Anjou.**

.11, Finistère; .12, Côtes du Nord; .13, Morbihan; 14, Loire Inférieure; 15, Ille et Vilaine; 16, **Maine:** Mayenne; 17, Sarthe; 18, **Anjou:** Maine et Loire.

.2 **Normandy. Picardy.**

.21, Manche; .22, Calvados; .23, Orne; 24, Eure; 25, Seine Inférieure; 26, **Picardy:** Somme; 27, **Artois:** Pas de Calais; 28, Nord.

.3 **Champagne. Isle de France. Lorraine.**

.31, Ardennes; .32, Marne; .33, Aube, Haute Marne; .34, **Isle de France:** Aisne; .35, Oise; 36, Seine et Oise, Paris; .37, Seine et Marne; .38, **Lorraine:** Meuse, Moselle; 39, Meurthe, Vosges.

.4 **Burgundy. Franche Comte. Savoy.**

.41, Yonne; .42, Côte d'Or; .43, Saône et Loire; .44, Ain; .45, **Franche Comté:** Haute Saône, Belfort; .46, Doubs; .47, Jura; .48, **Savoy:** Savoie; .49, Haute Savoie.

.5 **Orleans, etc. Auvergne.**

.51, Eure et Loir; .52, Loiret; .53, Loir et Cher; 54, **Touraine:** Indre et Loir; .55, **Berry:** Indre, Cher; .56, **Nivernais:** Nièvre; .57, **Bourbonnais:** Allier; .58, **Lyonnais:** Loire, Rhône; .59, **Auvergne:** Puy de Dôme, Cantal.

.6 **Poitou. Limousin.**

.61, Vendée; .62, Deux Sèvres; .63, Vienne; .64, Charente Inférieure; .65, Charente; .66, **Limousin:** Haute Vienne; .67, Corrèze; .68, **Marche:** Creuse.

.7 **Guienne. Gascony.**

.71, Gironde; .72, Dordogne; .73, Lot; .74, Aveyron; .75, Tarn et Garonne; .76, Lot et Garonne; .77, **Gascony:** Landes, Gers; .78, Hautes Pyrénées; .79, **Bearn:** Basses Pyrénées.

.8 **Languedoc.**

.81, Haute Loire, Lozère; .82, Ardèche; .83, Gard; .84, Hérault; .85, Tarn; .86, Haute Garonne; .87, Aude; .88, **Foix:** Ariége; .89, Pyrénées Orientales.

.9 **Provence. Dauphiny.**

.91, Bouches du Rhône; .92, Vaucluse; .93, Var; .94, Alpes Maritimes; .95, Basses Alpes; 96, **Dauphiny;** 97, Hautes Alpes; 98, Drôme; 99, Isère.

945 Italy.

Period Divisions.

.01	Gothic and Lombard Kingdoms.	476–774.
.02	Frankish Emperors.	774–961.
.03	German Emperors.	962–1122.
	Hildebrand and Papal Supremacy.	
.04	Age of the Communes.	1100–1300.
	Free Cities. Strifes of Guelphs and Ghibelines.	
.05	Age of the Despots.	1300–1492.
.06	Age of Invasions.	1492–1527.
.07	Spanish-Austrian Ascendancy.	1527–1796.
.08	Struggle for Independence.	1796–1870.
.09	United Italy.	1870–
	Victor Emanuel, Cavour, Garibaldi.	

Geographical Divisions of Italy.

945.1 **Piedmont and Liguria.**
.2 **Lombardy.**
.3 **Venetia.**
.4 **Emilia.**
.5 **Tuscany.**
.6 **Marches, Umbria and Latium.**
.7 **Naples.**

.71, Abruzzo and Molise; .72, Campania; .73, Napoli; .74, Salerno; .75, Apulia; .76, Lecce, Terra di Otranto; .77, Basilicata, Potenza; .78, Calabria; 79, Reggio di Calabria.

.8 **Sicily. Malta.**
.9 **Sardinia and Corsica.**

946 Spain.

Period Divisions.

.01	Early History. Roman Dominion. Gothic Kingdom.	—— 711.
.02	Moorish Kingdom.	711–1479.
.03	Ferdinand V and Isabella.	1479–1516
	Discovery.	
	Expulsion of the Moors.	
.04	Charles I and Philip II.	1516–1598.
	Inquisition. War with the Netherlands. Armada. Charles I (V of Germany) 1516–1556; Philip II 1556–1598.	
.05	Philip III.—Charles IV.	1598–1808.
	Degeneration. 1, Philip III 1598–1621; 2, Philip IV 1621–1665; 3, Charles II 1665–1700; 4, House of Bourbon: 5, Philip V 1700–1746; 6, Ferdinand VI 1746–1759; 7, Charles III 1759–1788; 8, Charles IV 1788–1808.	
.06	Peninsular War.	1808–1814.
	Joseph Bonaparte.	
.07	Bourbon Restoration.	1814–1868.
	Attempts at Reform.	
	Ferdinand VII 1814–1833; Isabella II. 1833–1868.	
.08	Later 19th Century.	1868 ——
	Revolution of 1868–1870; Amadeus 1870–1873; Republic 1873–1875; Alfonso XII 1875–85; Alfonso XIII 1886–	

Geographical Divisions of Spain.

946.1 **Galicia. Asturias.**
.2 **Leon. Estramadura.**
.3 **Old Castile.**
.4 **New Castile.**
.5 **Aragon.**
.6 **Basque Provinces.**
.7 **Catalonia. Balearic Isles. Valencia. Murcia.**
.8 **Andalusia. Canary Isles.**
.9 **Portugal.**

.98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

.01	Primitive Russia.	—— 862.
.02	Varangian Kingdom.	862–1237.
	Conversion to Christianity.	
.03	Mongolian Invasion.	1237–1462.
	Civil Wars.	
.04	Ivan III—Ivan V.	1462–1689.
	Origin of Serfdom.	
.05	Peter the Great.	1689–1725.
	Wars with Sweden and Turkey.	
.06	Catharine I—Catharine II.	1725–1796.
	Partition of Poland.	
.07	Paul I—Nicholas I.	1796–1855.
	War with Napoleon.	
	Insurrection of Poland.	
	Crimean War. See also 942.08; 944.07; 945.08; 949.6.	
.08	Alexander II—	1855–1881.
	Emancipation of the Serfs.	
	Turko-Russian War.	
	Alexander III—	1881–

Geographical Divisions of Russia.

947.1 **Finland. Lapland.**
.2 **Northern Great Russia.**

Archangel; Vologda; Olonetz; Novgorod.

.3 **Southern Great Russia.**
.4 **Baltic Provinces.**

Courland; Livonia; Esthonia; St. Petersburg.

.5 **Russian Poland.**
.6 **West Russia.**
.7 **Little Russia. South Russia.**
.8 **East Russia.**
.9 **Caucasia.**

948 Norway, Sweden, and Denmark.

Period Divisions.

.01 Legendary Period. —— 800.

.02 Consolidation. Migration. 801–1397.
Introduction of Christianity.
Discovery of Iceland, Greenland, and America.
Conquest of Britain and Normandy.

.03 Union of the three kingdoms. 1397–1523.
Civilization. Foreign relations.

.04 The Reformation. 1523–1648.
Edict of Toleration, 1527.
30 Years' War. Gustavus Adolphus.

.05 Decline. 1648–1792.
Wars, vs. Denmark, Poland, Russia.
Political changes.

.06 Napoleonic Wars. 1792–1818.
Union of Norway and Sweden, 1814.

.07 Charles XIV. (Bernadotte). 1818 ——.
Peace. Internal reform.

.08

Geographical Divisions.

.1 **Norway.**

.2 **Christiania.**

.3 **Christiansand. Bergen.**

.4 **Hamar. Throndhjem. Tromso.**

.5 **Sweden.**

.6 **Gothland.**

.7 **Svealand.**

.8 **Norrland.**

.9 **Denmark.**

949 Minor Countries of Europe.

.1 **Iceland. Faroe Islands.**

01, Commonwealth, –1264; 02, Mediævalism, 1264–1551; 03, Absolute Rule, Decay, 1551–1848; 04, Modern Iceland, 1848 ——.

.2 **Netherlands.**

01, Early History, –1477; 02, Austrian Dominion, 1477–1566; 03, Wars for Independence, 1566–1648; 04, Age of Prosperity, 1648–1795; 05, Revolutionary, 1795–1830; 06, 19th Century, 1830 ——.

.3 **Belgium.**

.4 **Switzerland.**

01, Early History, –1300; 02, Struggle for Independence, 1300–1499; 03, Reformation, 1499–1648; 04, Period of Tranquillity, 1648–1789; 05, Period of Revolution, 1789–1815; 06, 19th Century, 1815 ——.

949.5 **Byzantine Empire and Modern Greece.**

01, Greek Revival. 323–716.
Constantine the Great — Theodosius III.

02, Byzantine Prosperity. 716–1057.
Leo III — Michael VI.

03, Byzantine Decline. 1057–1204.
Isaac I — Latin conquest of Constantinople.

04, Greek Survival. 1204–1453.
Constantinople taken by the Turks, 1453.

05, Turkish Power. 1453–1821.

06, Greek Independence. 1821 ——.

.6 **Turkey in Europe.** .61, Constantinople.

.7 **Servia. Bulgaria. Montenegro.**

.8 **Roumania: Wallachia, Moldavia.**

.9 **Islands of Grecian Archipelago.**
Divided like 939.1.

950 Asia.

951 China.

.1, N. E. China, Peking; .2, S. E. China, Canton, Hong Kong, Formosa; .3, S. W. China; .4, N. W. China; .5, Thibet; .6, East Turkestan; .7, Mongolia; .8, Manchuria; .9, Corea.

952 Japan.

953 Arabia.

.1, Sinai; .2, Hejaz, Mecca; .3, Yemen; .4, Hadramaut, Mahrah; .5, Oman; .6, Hasa; .7, Dahna; .8, Nejd; .9, Syrian Desert.

954 India.

.1, Bengal, Orissa, Assam, Bhotan; .2, Northwest Provinces, Oudh, Nepal; .3, Central Provinces; .4, Rajputana; .5, Punjab, Delhi, Lahore; .6, Cashmere; .7, Bombay, Sind, Baroda; .8, Madras, Mysore, Travancore, Ceylon; .9, Hyderabad.

955 Persia.

956 Turkey in Asia. See also 949.6.

.1, Khodavendikyar; .2, Aidin, Smyrna; .3, Kastamuni, Angora; .4, Konieh, Adana, Cyprus; .5, Trebizond, Sivas; .6, Erzerum, Diarbekr, Karpoot; .7, Bagdad, Kurdistan; .8, Aleppo; .9, Damascus, Phenicia, Palestine.

957 Siberia.

958 Afghanistan. Turkestan. Baluchistan.

.1, N. E. Afghanistan, Cabul; .2, South Afghanistan, Candahar; .3, N. W. Afghanistan, Herat; .4, Turkestan; .5, Kiva; .6, Bokhara; .7, Ferghana or Khokan; .8, **Baluchistan.**

959 Farther India.

.1, British Burmah; .2, Burmah; .3, Siam; .4, Laos; .5, Lower Siam, Malay Peninsula; .6, Cambodia; .7, French Cochin China; .8, Anam; .9, Tonkin.

960 Africa.

961 North Africa.

.1, Tunis; .2, Tripoli; .3, Fezzan.

962 Egypt.

.1, Lower Egypt, Alexandria, Cairo; .2, Middle Egypt; .3, Upper Egypt, Thebes; .4, Nubia; .5, Dongola; .6, Egyptian Soudan, Kartum; .7, Darfur; .8, Kordofan; .9, Sennaar.

963 Abyssinia.

964 Morocco.

965 Algeria.

966 North Central Africa.

.1, Sahara; .2, Soudan; .3, Senegambia; .4, Sierra Leone; .5, Upper Guinea; .6, Liberia; .7, Ashantee; .8, Dahomey; .9, Gold Coast.

967 South Central Africa.

.1, Lower Guinea; .2, Loango, Congo; .3, Angola, Benguela; .4, Interior; .5, Congo Basin; .6, Central Lake Region; .7, Somali; .8, Zanzibar; .9, Mozambique.

968 South Africa.

.1, Sofala; .2, Transvaal; .3, Zululand; .4, Natal; .5, Orange Free State; .6, Kaffraria; .7, Cape Colony; .8, West Coast; .9, Interior.

969 Madagascar. Mauritius.

970 North America.

.1, Indians, Aborigines; .2, Lives of Indians; .3, Special Tribes; .4, Special States; .5, Government Relation and Treatment; .6, Special Subjects, Character, Civilization, Agriculture, etc.

See 371.95, Education; 572.97, Ethnology; 497, Languages.

971 Canada. British America.

.1 **British Columbia.**

.2 **North-West Territory.**

.21, ; .22, Athabasca; .23, Alberta; .24, Saskatchewan; .25, Assiniboia; .26, Keewatin; .27, Manitoba; .28, N. E. Territory.

.3 **Ontario.**

.4 **Quebec.**

.5 **New Brunswick.**

.6 **Nova Scotia.**

.7 **Prince Edward Island.**

.8 **Newfoundland.**

.9 **Labrador.**

972 Mexico. Central America.

Period Divisions.

.01	Ancient Civilization. 1, Toltec; 2, Chichimec; 3, Tarascan; 4, Aztec; 5, Maya.	—— 1516.
.02	Discovery and Spanish Rule.	1516–1810.
.03	Independence.	1810–1822.
.04	First Empire. Iturbide I. Pronunciamientos.	1822–1845.
.05	War with U. S. See also 973.6.	1845–1848.
.06	Constitution of '57. Reform.	1848–1861.
.07	French Intervention.	1861–1867.
.08	Later History.	1867 ——

Geographical Divisions.

.1 **Free Zone and Northern States.**

Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango.

.2 **Lower California and Islands.**

.3 **Central Pacific States.**

Sinaloa, Jalisco, Colima, Michoacan.

.4 **Interior States.**

Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos.

.5 **Mexico. Federal District.**

.6 **Southern Gulf States.**

Veracruz, Tabasco, Campeche, Yucatan.

.7 **Southern Pacific States.**

Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas.

.8 Central America.

.81 Guatemala.
.82 British Honduras. Belize.
.83 Honduras.
.84 San Salvador.
.85 Nicaragua.
.86 Costa Rica.

.9 West Indies.

.91 Cuba.
.92 Jamaica.
.93 Santo Domingo.
.94 Hayti.
.95 Porto Rico.
.96 Bahamas.
.97 Leeward Islands.
.98 Windward Islands, Barbados.
.99 Bermudas.

01. archives
03. Dict.
05. Per.

973 United States and Territories.

Period Divisions.

.1 Discovery. A. D. 896–1607.
Norse, Spanish, Dutch, French, English.

.2 Colonial. 1607–1775.
French and Indian Wars.

.3 Revolution and Confederation. Divided like 973.7 1775–1789.

.4 Constitutional Period. For U. S. Constitution, see 342.73. 1789–1812.
Federalists and Republicans. See 329.1.
Washington, 1789–1797; John Adams, 1797–1801; Jefferson, 1801–1809.

.5 War of 1812. 1812–1845.
Hartford Convention. 1814.
Nullification in South Carolina. 1832.
Annexation of Texas. 1845. See also 976.4, Texas.
Madison, 1809–1817; Monroe, 1817–1825; John Quincy Adams, 1825–1829; Jackson, 1829–1837; Van Buren, 1837–1841; Harrison, 1841; Tyler, 1841–1845.

.6 War with Mexico. 1845–1861.
The Wilmot Proviso. 1846.
Compromise of 1850.
Struggle in Kansas. 1854–1859. See also 978.1, Kansas.
Polk, 1845–1849; Taylor, 1849–1850; Fillmore, 1850–1853; Pierce, 1853–1857; Buchanan, 1857–1861.

.7 Civil War. Abolition of Slavery. Lincoln, 1861–1865.
.71 Political History. Causes. Results.
.72 Diplomatic History. Relations with other Nations.
.73 Special Campaigns and Battles.
.74 General Military History. Raising Troops. Armies.
.75 Naval History.
.76 War Meetings and Addresses. Celebrations. Anniversaries. Commemorations.
.77 Charities. Sanitary Commission. Hospital Sketches. Prison Life.
.78 Personal Narratives. Vindications. Secret Service.
.79 War Poetry, Dramas, Novels, and Sermons.

.8 Later 19th Century. 1865 ——.
Reconstruction. Civil Service Reform.
Johnson, 1865–1869; Grant, 1869–1877; Hayes, 1877–1881; Garfield, 1881; Arthur, 1881–1885; Cleveland, 1885–89; Harrison, 1889–.

65 Spanish war 1898-86. Philippine war.

974 North-Eastern or North Atlantic. New England.

.1 Maine.
.11 Aroostook.
.12 Somerset. Piscataquis.
.13 Penobscot.
.14 Washington. Hancock.
.15 Waldo. Knox. Lincoln.
.16 Kennebec.
.17 Franklin. Oxford.
.18 Androscoggin. Sagadahoc.
.19 Cumberland. York.

974.2 New Hampshire.
.21 Coos.
.22 *White Mts.*
.23 Grafton.
24 Carroll. Belknap.
.25 Strafford.
.26 Rockingham.
.27 Merrimac. Sullivan.
.28 Hillsborough.
.29 Cheshire.

.3 Vermont.
.31 Grand Isle. Franklin. Chittenden.
.32 Orleans. Essex.
.33 Caledonia. Lemoille.
.34 Washington.
.35 Addison.
.36 Orange. Windsor.
.37 Rutland.
.38 Bennington.
.39 Windham.

.4 Massachusetts.
.41 Berkshire.
.42 Franklin. Hampshire. Hampden.
.43 Worcester.
.44 Middlesex.
.45 Essex.
.46 Suffolk. *Boston.*
.47 Norfolk.
.48 Plymouth. Bristol.
.49 Barnstable. Dukes. Nantucket.

.5 Rhode Island.
.51 Providence.
.52 *Providence city.*
.53 *Pawtucket.*
.54 Kent.
.55 Bristol.
.56 Newport.
.57 *Newport city.*
.58 *Block Island.*
.59 Washington.

.6 Connecticut.
.61 Litchfield.
.62 Hartford.
.63 *Hartford city.*
.64 Tolland. Windham.
.65 New London.
.66 Middlesex.
.67 New Haven.
.68 *New Haven city.*
.69 Fairfield.

974·7 **New York.**

·71 New York City.

·72 Vicinity of New York City.
1, **Long Island**; 2, Kings Co.; 3, *Brooklyn;* 4, Queens Co.; 5, Suffolk Co.; 6, Richmond Co., Staten Island; 7, Westchester Co.; 8, Rockland Co.

·73 Southeast counties.
1, Orange, *West Point;* 2, Putnam; 3, Dutchess; 4, Ulster; 5, Sullivan; 6, Delaware; 7, Green; 8, *Catskill Mts.;* 9, Columbia.

·74 Middle east counties.
1, Rensselaer, *Troy;* 2, Albany; 3, *Albany City;* 4, Schenectady; 5, Schoharie; 6, Montgomery; 7, Fulton; 8, Saratoga; 9, Washington.

75 Northern counties.
1, Warren, *Lake George;* 2, Hamilton; 3, Essex, *Adirondacks;* 4, Clinton, *Lake Champlain;* 5, Franklin; 6, St. Lawrence; 7, Jefferson; 8, *The Thousand Islands;* 9, Lewis.

·76 North central counties.
1, Herkimer; 2, Oneida; 3, *Utica;* 4, Madison; 5, Onondaga; 6, *Syracuse;* 7, Oswego; 8, Cayuga; 9, Seneca.

·77 South central counties.
1, Tompkins; 2, Cortland; 3, Chenango; 4, Otsego; 5, Broome; 6, *Binghamton;* 7, Tioga; 8, Chemung; 9, *Elmira.*

·78 West central counties.
1, Schuyler; 2, Yates; 3, Steuben; 4, Alleghany; 5, Livingston; 6, Ontario; 7, Wayne; 8, Monroe; 9, *Rochester.*

·79 Western counties.
1, Orleans; 2, Genesee; 3, Wyoming; 4, Cattaraugus; 5, Chautauqua; 6, Erie; 7, *Buffalo;* 8, Niagara; 9, *Niagara Falls.*

.8 **Pennsylvania.**

.81 Southeast counties. Philadelphia and Chester group.
1, Philadelphia; 2, Montgomery; 3, Chester; 4, Delaware; 5, Lancaster; 6, Berks; 7, Schuylkill; 8, Dauphin; 9, Lebanon.

.82 Eastern counties. Bucks group.
1, Bucks; 2, Northampton; 3, Wayne; 4, Pike; 5, Monroe; 6, Carbon; 7, Lehigh.

.83 Northeast counties. Northumberland group.
1, Northumberland; 2, Luzerne; 3, *Wilkes-Barré;* 4, Susquehanna; 5, Wyoming; 6, Lackawanna; 7, *Scranton;* 8, Columbia; 9, Montour.

.84 Southeast central counties. Cumberland group.
1, York; 2, Adams; 3, Cumberland; 4, Franklin; 5, Perry; 6, Mifflin; 7, Juniata; 8, Union; 9, Snyder.

.85 Northeast central counties. East Lycoming group.
1, Lycoming; 2, ; 3, Centre; 4, Clinton; 5, Potter; 6, Tioga; 7, Bradford; 8, ; 9, Sullivan.

.86 Northwest central counties. West Lycoming group.
1, Clearfield; 2, Jefferson; 3, McKean; 4, ; 5, Elk; 6, Cameron; 7, Warren; 8, Forest; 9, Clarion.

.87 Southwest central counties. Bedford group.
1, Bedford; 2, Fulton; 3, Huntingdon; 4, ; 5, Blair; 6, *Altoona;* 7, Cambria; 8, ; 9, Somerset.

.88 Southwest counties. Westmoreland group.
1, Westmoreland; 2, Washington; 3, Greene; 4, Fayette; 5, Alleghany; 6, *Pittsburgh;* 7, *Alleghany City;* 8, Armstrong; 9, Indiana.

.89 Northwest counties. Alleghany group.
1, Butler; 2, Beaver; 3, Lawrence; 4, ; 5, Mercer; 6, Venango; 7, Crawford; 8, ; 9, Erie.

974·9 **New Jersey.**

·91 **East Jersey.**

·92 Northern counties.
1, Bergen; 2, ; 3, Passaic; 4, *Paterson;* 5, ; 6, Hudson; 7, *Jersey City;* 8, *Hoboken.*

·93 Central counties.
1, Essex; 2, *Newark;* 3, *Orange;* 4, ; 5, ; 6, Union; 7, *Elizabeth;* 8, *Rahway.*

·94 Southern counties.
1, Middlesex; 2, *New Brunswick;* 3, ; 4, Somerset; 5, ; 6, Monmouth; 7, ; 8, Ocean.

·95 **West Jersey.**

·96 Central counties.
1, Burlington; 2, ; 3, ; 4, ; 5, Mercer; 6, *Trenton;* 7, *Princeton.*

·97 Northern counties.
1, Hunterdon; 2, *Raritan;* 3, ; 4, Morris; 5, ; 6, Sussex; 7, ; 8, Warren.

·98 Upper southern counties.
1, Gloucester; 2, ; 3, ; 4, Atlantic; 5, ; 6, ; 7, Camden; 8, *Camden city.*

·99 Lower southern counties.
1, Salem; 2, *Salem city;* 3, ; 4, Cumberland; 5, *Bridgeton;* 6, ; 7, ; 8, Cape May.

975 South-Eastern or South Atlantic.

Including general works on "the South."

.1 **Delaware.**

.2 **Maryland.**

.3 **District of Columbia.**

.4 **West Virginia.**

.5 **Virginia.**

.6 **North Carolina.**

.7 **South Carolina.**

.8 **Georgia.**

.9 **Florida.**

976 South Central or Gulf.

.1 Alabama.
.2 Mississippi.
.3 Louisiana.
.4 Texas.
.5
.6 Indian Territory. Oklahoma.
.7 Arkansas.
.8 Tennessee.
.9 Kentucky.

977 North Central or Lake.

.1 Ohio.
.2 Indiana.
.3 Illinois.
.4 Michigan.
.5 Wisconsin.
.6 Minnesota.
.7 Iowa.
.8 Missouri.
.9

978 Western or Mountain.

Including general works on "the West."

.1 Kansas.
.2 Nebraska.
.3 South Dakota. Including works on Dakota as a whole.
.4 North Dakota.
.5
.6 Montana.
.7 Wyoming.
.8 Colorado.
.9 New Mexico.

979 Pacific.

.1 Arizona.
.2 Utah.
.3 Nevada.
.4 California.
.5 Oregon.
.6 Idaho.
.7 Washington.
.8 Alaska.

980 **South America.**

981 Brazil.
982 Argentine Republic. Patagonia.
983 Chili.
984 Bolivia.
985 Peru.
986 U. S. of Colombia. New Granada. Ecuador.
987 Venezuela.
988 Guiana.
989 Paraguay. Uruguay.

990 **Oceanica. Polar Regions.**

991 Malaysia.

.1, Borneo; .2, Celebes; .3, Moluccas or Spice Islands; .4, Philippine Islands.

992 Sunda.

.1, Sumatra; .2, Java.

993 Australasia.

.1, New Zealand; .2, New Caledonia; .3, Loyalty Islands; .4, New Hebrides; .5, Solomon Islands; .6, New Britain, New Ireland; .7, Admiralty Islands.

994 Australia.

.1, Western Australia; .2, South Australia; .3, Queensland; .4, New South Wales; .5, Victoria; .6, Tasmania.

995 New Guinea.

996 Polynesia.

.1, Fiji, Friendly and Navigator's Islands; .2, Society, Austral and Cook's Islands; .3, Marquesas Islands and Low Archipelago; .4, Minor Polynesian Islands; .5, Micronesia; .6, Caroline and Pelew Islands; .7, Ladrone Islands; .8, Marshall and Gilbert Islands; .9, Hawaii.

997 Isolated Islands.
998 Arctic Regions.
999 Antarctic Regions.

RELATIV SUBJECT INDEX

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

Topics accidentally omitted from the index will be found in a supplement at the end.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

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Table 1. — Geographical Divisions.

The following subjects may all be divided geographically by adding the geographical numbers: i. e., 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be farther sub-divided as minutely as wished, like the history, 940–999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geographical numbers are formed by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixed to the number given in the table below; e. g.: Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix the 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. State, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. State.

A number of unimportant topics, e. g. minor religious sects, which may be divided geographically, are omitted from this table.

373. Academies, private.
379. " public.
354. Administration (except U. S.).
923.5 " biography.
923.5 Admirals' lives.
283. American P. E. church.
922.3 " " " biography.
911. Ancient geography.
283. Anglican church.
922.3 " " biography.
591.9 Animals, geographical distribution.
328. Annals, legislative.
913. Antiquities, archæology.
922.3 Archbishops' lives, Anglican.
922.2 " " Roman catholic.
720.9 Architecture, history of.
923.5 Army biography.
709. Art, history of.
362.9 Asylums.
027.2 Atheneum libraries.
912. Atlases.
923.3 Bankers' lives.
286.1 Baptist, Calvinistic.
286.2 " Free will.
286.3 " Seventh day.
922.6 " lives.
016.9 Bibliography of history.
015. " special countries.
920.0 Biography of countries, collective; also religious biography 922.2 to 922.8, and biography of sociology 923.1 to 923.8.
922.3 Bishops' lives, Anglican and P. E.
922.2 " " Roman catholic.
655.4 Bookselling, history of.
581.9 Botany, geographical.
284.2 Calvinist church.
922.4 " lives.
923.3 Capitalists' lives.
922.2 Cardinals' "
282. Catholic church.
922.2 " " biography.
284.8 " Old, church.
361.9 Charitable associations.
283. Church, Episcopal.
922.3 " " biography.
27 " history.
027.3 Circulating libraries.
027.4 City libraries, public.
923.5 Civil service biography.
027.2 Club libraries.
367.9 Clubs, social.
332.49 Coinage, history of.
027.7 College libraries.
378. Colleges.
325. Colonies.
923.8 Commerce, biography of.
285.8 Congregational church.
922.5 " " biography.
342. Constitutional law.
922.4 Continental Protestants' lives.
655.6 Copyright.
343. Criminal law.
923.4 Criminals' lives.
614.12 Deaths and death-rates.
91 Description, geographical.
91 Directories.
591.9 Distribution of animals, geog.
549.9 " " minerals "
581.9 " " plants "
572.9 " " races "
284.1 Dutch reformed church (except America).
285.7 Dutch reformed church (in America).
922.4 Dutch reformed church biography.
27 Ecclesiastical history.
378. Education, college.
372.9 " elementary.
370.9 " history of.

373. Education, intermediate (private).
376.9 " of woman.
373. " private academics.
379. " public school.
923.7 Educators' lives.
372.9 Elementary education.
325.1 Emigrants.
923.1 Emperors' lives.
027.4 Endowed libraries.
373. " schools.
628.09 Engineering, sanitary.
283. Episcopal church.
922.3 " " biography.
287.6 " Methodist, church.
922.7 " " " biog.
572.9 Ethnology.
027.1 Family libraries.
376.9 Female education.
336. Finance.
923.3 Financiers' lives.
349. Foreign law.
327. " relations.
354. " states, administration.
560.9 Fossils, geographical distribution.
027.9 Free news rooms.
027.4 " public libraries.
289.6 Friends or quakers.
922.8 " " " biography.
027.0 General libraries, hist., reports, etc.
581.9 Geographical botany.
591.9 " dist. of animals.
560.9 " " " fossils.
549.9 " " " minerals.
572.9 " " " races.
91 Geography, description.
911. " historical.
912. " maps.
55 Geology.
724.3 Gothic revival, architecture.
724.4 " Victorian, "
354. Government admin. (except U. S.).
027.5 " libraries.
352.0 " local.
923.2 Governors' lives.
724.2 Grecian revival, architecture.
614.09 Health, public.
911. Historical geography.
016.9 History, bibliography of.
362.9 Hospitals.
284.5 Huguenots.
922.4 " biography.
613.09 Hygiene.
325. Immigration.
338.9 Industrial legislation.
607. Institutes of technology.
368.9 Insurance.

373. Intermediate education.
923.4 Judges' lives.
923.1 Kings' lives.
923.4 Law biography.
342. " constitutional.
343. " criminal.
349. " foreign.
338.9 Legislation, industrial.
328. Legislative bodies and annals.
923.2 Legislators' lives.
027.0 Libraries, general, histories, rep., etc.
352.0 Local government.
284.1 Lutheran church.
922.4 " " biography.
912. Maps.
923.8 Merchants' lives.
287.6 Methodist episcopal.
922.7 " biography.
553.70 Mineral waters.
549.9 Minerals, geographical distribution.
332.49 Mints, history.
780.9 Music, history of.
015. National bibliography.
920.0 " biography.
923.5 Naval "
724.6 Néo-Grec architecture.
027.9 News rooms, free.
923.2 Nobles' lives.
560.9 Paleontology.
027.8 Parish libraries.
328. Parliamentary bodies.
329.9 Parties, political (except U. S.).
923.6 Philanthropists' lives.
912. Plans of cities, etc.
581.9 Plants, geographical distribution.
363.9 Political associations.
923.3 " economy, biography.
329.9 " parties (except U. S.).
923.2 " science, biography.
320.9 " " history of.
923.2 Politicians' lives.
312. Population, statistics of.
373. Preparatory schools.
285.1 Presbyterian church in America.
285.2 " " " Gr. Britain.
922.5 " " biography.
923.1 Presidents' lives.
655.1 Printing, history of.
365.9 Prisons.
027.1 Private libraries.
373. " schools.
027.2 Proprietary libraries.
283. Protestant Episcopal church.
922.3 " " " biog.
922.4 Protestants, Continental, lives.
614.09 Public health.

027.4 Public libraries.
379. " school system.
015. Publishers' lists.
655.4 Publishing, history of.
289.6 Quakers.
922.8 " lives.
724.5 Queen Anne architecture.
923.1 Queens' lives.
572.9 Races of men.
923.8 Railroad officials' lives.
027.4 Rate supported libraries.
027.9 Reading rooms, free.
364.9 Reformatory institutions.
284.1 Reformed church.
285.7 " (Dutch) church in Amer.
922.4 " " " biography.
327. Relations, foreign.
27 Religious history.
724.1 Renaissance architecture.
282. Roman Catholic church.
922.2 " " " biography.
724.8 Romanesque revival, architecture.
923.1 Rulers, Chief, lives.
628.09 Sanitary engineering, history, etc.
284.7 Scandinavian church.
922.4 " " biography.
027.8 School libraries.
923.7 " officers' biography.
373. Schools, private.
379. " public, system.
508. Scientific travels.
366.9 Secret societies.
373. Seminaries, private.
923.5 Service, Civil, biography.
286.3 Seventh day baptist.
922.6 " " " biography.
289.8 Shakers.
922.8 " biography.
653.09 Shorthand, history.

326.9 Slavery, history.
367.9 Social clubs.
366.9 Societies, secret.
027.2 Society libraries.
923.5 Soldiers' lives.
379. State education.
027.5 " libraries.
923.2 Statesmen's lives.
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027.3 Subscription libraries.
324. Suffrage.
027.8 Sunday school libraries.
289.4 Swedenborgians.
922.8 " biography.
284.7 Swedish church.
922.4 " " biography.
724.7 Swiss architecture.
923.7 Teachers' lives.
607. Technical schools.
724.7 Timber architecture.
027.4 Town libraries, public.
91 Travel, description.
508 " scientific.
341.2 Treaties, texts and history.
724.4 Tudor architecture.
288. Unitarian church.
922.8 " biography.
289.1 Universalist church.
922.8 " " biography.
378. Universities, history, reports, etc.
027.7 University libraries.
724.4 Victorian Gothic, architecture.
324. Voting.
922.4 Waldenses biography.
553.70 Waters, mineral.
376.9 Woman's education.
591.9 Zoölogy, geographical.

Table 2.— Form Divisions.

The form distinctions 01, Philosophy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

The following is an alphabetical list of these divisions, and the figures prefixed should be *added* to the number of the subject to be sub-divided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06 Academies.
06 Acts of societies.
04 Addresses.
06 Associations.
02 Charts. Tabular views. Compends.
08 Collected works.
08 Collections.
02 Compends.
03 Concordances.
03 Cyclopedias.
03 Dictionaries.
04 Discourses.
04 Disputations.
07 Education.
03 Encyclopedias.
04 Essays.
06 Exhibitions.
08 Extracts.
09 History.
04 Lectures.
04 Letters.
03 Lexicons.
08 Libraries, collections, series.
05 Magazines.
02 Manuals.
08 Maxims.
01 Methods.
08 Miscellanies.
07 Museums.
02 Outlines.
04 Papers.
05 Periodicals.
01 Philosophy.
08 Polygraphy.
06 Reports of societies.
05 Reviews.
07 Schools.
07 Seminaries.
06 Societies.
07 Study.
02 Systems.
07 Teaching.
01 Theories.
04 Tracts.
07 Training schools.
06 Transactions.
08 Treatises.
01 Utility.

Table 3.— Languages.

The table below includes all languages mentioned in the classification, except those in 494—499, not yet sub-divided.

Any language in this table may be sub-divided like 420, English.

Any philological topic in the index may be transferred to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to sub-divide the language is to prefix the language figures as given in this table to the philological numbers given in Table 4.

All three methods give the same result.

491.58 Afghani.
492.8 Amharic.
429. Anglo Saxon.
492.7 Arabic.
492.1 Aramaic.
491.54 Armenian.
491.68 Armorican.
492.19 Assyrian.
491.52 Avestan, Zend.
492.19 Babylonian.
491.52 Bactrian, Old.
491.68 Bas Breton.
491.69 Basque.
491.44 Bengali.
491.86 Bohemian.
491.68 Breton, Bas.
491.81 Bulgarian.
492.6 Carthaginian.
449.9 Catalan.
492.2 Chaldee.
491.81 Church Slavonic.
493.2 Coptic.
491.67 Cornish.
491.83 Croatian.

492.19 Cuneiform.
491.65 Cymric Group.
491.66 " or Welsh.
439.8 Danish.
439.4 Deutsch, Platt.
439.3 Dutch.
493.1 Egyptian, Old.
42 English.
427.01 " Old.
491.61 Erse, Gadhelic group.
491.63 " Gaelic.
492.8 Ethiopic.
477.5 Etruscan.
439.6 Faroese.
439.3 Flemish.
44 French.
447.01 " Old.
439.2 Frisian.
491.61 Gadhelic Group.
491.63 Gaelic or Scotch.
43 German.
437.02 " Middle High.
437.01 " Old High.
439.9 Gothic.
48 Greek.
489. " Modern.
491.47 Gujerati.
492.4 Hebrew.
492.9 Himyaritic.
491.43 Hindi.
491.1 Hindu languages.
491.43 Hindustani.
491.53 Huzwaresh.
439.6 Icelandic.
491.1 Indic Group.
491.62 Irish.
45 Italian.
492.4 Jewish.
491.83 Kroatian.
491.57 Kurdish.
47 Latin.
479. " Medieval.
491.93 Lettish.
491.92 Lithuanian.
491.93 Livonian.
439.3 Low Dutch.
479 " Latin.
491.64 Manx.
491.46 Marathi.
479. Medieval Latin.
437.02 Middle High German.
489. Modern Greek.
491.55 " Persian.
491.87 Moravian.
492.19 Nineveh Cuneiform.
439.6 Norse, Old.
439.8 Norwegian.
491.52 Old Bactrian.
493.1 " Egyptian.
427.01 " English.
447.01 " French.
437.01 " High German.
439.6 " Norse.
491.51 " Persian.
491.91 " Prussian.
439.2 " Saxon.
491.45 Orissa.
491.56 Ossetic.
491.3 Pali.
491.42 Panjabi.
491.53 Pehlevi.
491.55 Persian, Modern.
491.51 " Old.
492.3 Peshito.
492.6 Phenician.
439.4 Platt Deutsch.
491.89 Polabian.
491.85 Polish.
469. Portuguese.
491.2 Prakrit.
449. Provençal.
491.91 Prussian, Old.
491.58 Pushtu.
459.9 Rhaeto-Romansch.
489. Romaic.
459. Roumanian.
459.9 Rumansh.
491.7 Russian.
491.79 Ruthenian.
492.5 Samaritan.
491.2 Sanskrit.
429. Saxon, Anglo-.
439.2 Saxon, Old.
439.5 Scandinavian languages.
491.63 Scotch or Gaelic.
491.82 Servian.
491.41 Sindhi.
491.48 Singhalese.
491.81 Slavonic, Church.
491.87 Slovakian.
491.84 Slovenian.
491.88 Sorbian.
46 Spanish.
439.7 Swedish.
492.3 Syriac.
491.45 Uriya.
459. Wallachian.
491.66 Welsh.
491.52 Zend.

Table 4. — Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e. g.:

English orthography	421
Provençal "	449.1
Arabic "	492.71
Gaelic "	491.631
Syntax of English verbs	425.8
" Modern Greek verbs	489.58
" Danish "	439.858
" Armenian "	491.5458
Inflection of English nouns	425.15
" Anglo-Saxon nouns	429.515
" Hebrew "	492.4515
" Welsh "	491.66515

18 Abbreviations.
12 Ablaut.
16 Accent, pronunciation.
61 " prosody.
51 Accidence.
25 Accusative, etymology.
55 " syntax.
26 Adjectival forms, derivation.
516 Adjectives, inflection.
56 " syntax.
29 Adverbs, derivation.
59 " syntax.
22 Affixes, derivation.
11 Alphabet.
21 Analogy.
53 Analysis, grammar.
67 Antistrophe, prosody.
28 Aorist, etymology.
58 " syntax.
7 Archaisms.
709 Argot.
53 Arrangement of words and clauses.
56 Articles, syntax.
12 Aspirates.
28 Augment, etymology.
83 Barbarisms.
83 Blunders.
25 Case endings, derivation.
55 Cases, syntax.
87 Chrestomathies.
53 Clauses, arrangement of.
516 Comparison, inflection.
26 Comparison, signs of, derivation.
54 Conditional sentences.
518 Conjugation.
29 Conjunctions, etymology.
59 " syntax.
28 Conjunctive mood, etymology.
58 " " syntax.
13 Consonants.
12 Crasis.
25 Dative case, etymology.
55 " " syntax.
515 Declension of nouns.
2 Derivation of words.
7 Dialects.
3 Dictionaries.
25 Diminutives, derivation.
12 Diphthongs.
17 Diplomatics.
701 Early forms of language.
86 Elementary readers.
53 Ellipsis.
52 Enallage.
83 Errors of speech.
2 Etymology, derivation.
51 " inflection.
89 Examination papers.
63 Feet, prosody.
64 Figures of prosody.
82 First lessons.
63 Foot, prosody.
24 Foreign elements.
25 Gender, etymology.
25 Genitive case, etymology.
55 " " syntax.
7 Glossaries, dialects.
3 " language.
83 Grammatical errors.
65 Hexameters.
64 Hiatus.
54 Hypothetical sentences.
31 Idioms.
88 Individual authors, texts.
28 Infinitive mood, etymology.
58 " " syntax.
51 Inflection.
516 " of adjectives.
515 " " nouns.
517 " " pronouns.
518 " " verbs.
17 Inscriptions.
29 Interjections, etymology.
59 " syntax.
29 Interrogatives, etymology.
59 " syntax.
21 Laws of language.
1 Letters, alphabet.

3 Lexicography.
3 Lexicons.
17 Manuscripts.
65 Meters, prosody.
28 Moods, signs of, derivation.
58 " syntax.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relative pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form.
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
8 Text books.
68 " " for writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.
892.8	Amharic.
892.7	Arabic.
892.1	Aramaic.
891.54	Armenian.
891.68	Armorican.
892.19	Assyrian.
891.52	Avestan, Zend.
892.19	Babylonian.
891.52	Bactrian, Old.
891.68	Bas Breton.
891.69	Basque.
891.44	Bengali.
891.86	Bohemian.
891.68	Breton, Bas.
891.81	Bulgarian.
892.6	Carthaginian.
849.9	Catalan.
892.2	Chaldee.
891.81	Church Slavonic.
893.2	Coptic.
891.67	Cornish.
891.83	Croatian.
892.19	Cuneiform.
891.65	Cymric Group.
891.66	" or Welsh.
839.8	Danish.
839.4	Deutsch, Platt.
839.3	Dutch.
893.1	Egyptian, Old.
82	English.
891.61	Erse, Gadhelic group.
891.63	" Gaelic.
892.8	Ethiopic.
839.6	Faroese.
839.3	Flemish.
84	French.
839.2	Frisian.
891.61	Gadhelic Group.
891.63	Gaelic or Scotch.
83	German.
839.9	Gothic.
889.	Greek, Modern.
891.47	Gujerati.
892.4	Hebrew.
892.9	Himyaritic.
891.43	Hindi.
891.1	Hindu languages.
891.43	Hindustani.
891.53	Huzwaresh.
839.6	Icelandic.
891.1	Indic Group.
891.62	Irish.
85	Italian.
892.4	Jewish.
891.83	Kroatian.
891.57	Kurdish.
879.	Latin, Medieval.
891.93	Lettish.
891.92	Lithuanian.
891.93	Livonian.
839.3	Low Dutch.
879	" Latin.
891.64	Manx.
891.46	Marathi.
879.	Medieval Latin.
889.	Modern Greek.
891.55	" Persian.
891.87	Moravian.
892.19	Nineveh Cuneiform.
839.6	Norse, Old.
839.8	Norwegian.
891.52	Old Bactrian.
893.1	" Egyptian.
839.6	" Norse.
891.51	" Persian.
891.91	" Prussian.
839.2	" Saxon.
891.45	Orissa.
891.56	Ossetic.
891.3	Pali.
891.42	Panjabi.
891.53	Pehlevi.
891.55	Persian, Modern.
891.51	" Old.
892.3	Peshito.
892.6	Phenician.
839.4	Platt Deutsch.
891.89	Polabian.
891.85	Polish.
869.	Portuguese.
891.2	Prakrit.

849.	Provençal.
891.91	Prussian, Old.
891.58	Pushtu.
859.9	Rhaeto-Romansch.
889.	Romaic.
859.	Roumanian.
859.9	Rumansh.
891.7	Russian.
891.79	Ruthenian.
892.5	Samaritan.
891.2	Sanskrit.
839.2	Saxon, Old.
839.5	Scandinavian languages.
891.63	Scotch or Gaelic.
891.82	Servian.
891.41	Sindhi.
891.48	Singhalese.
891.81	Slavonic, Church.
891.87	Slovakian.
891.84	Slovenian.
891.88	Sorbian.
86	Spanish.
839.7	Swedish.
892.3	Syriac.
891.45	Uriya.
859.	Wallachian.
891.66	Welsh.
891.52	Zend.

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To owner of Decimal Classification, ed. ..... no. 2239

The changes thus far made are chiefly from edition 1. These were almost inevitable, for in its great growth to edition 2, the full tables of the first edition became merely a table of contents for subsequent editions. It has now settled into permanent form, as its adoption in over 200 libraries renders further changes impracticable except for very weighty reasons.

A list of changes and errata was sent every registered owner of edition 1, and also printed on p. 45–7 of the Introduction to edition 2. A similar list of errata, with the few changes found necessary, was sent all subscribers to edition 2; and remaining typografical errors are corrected, it is hoped, in the list sent herewith to owners of editions 3 and 4.

The only way to make these corrections of *any value* is to go thru your copy and make the changes with a pen. Please send me, for the benefit of others, any further corrections or additions that you note as desirable.

MELVIL DEWEY
State Library, Albany, N. Y.

Errors in tables

025.2 Cancel comma after "free" in "duty free importation."

026 Line 4 of note, for chess library 026.795 read 026.794.

345 Line 2 of note, for 345.19 read 345.11.

353.9 End of note, for 353.9747 read 353.97476.

354 Line 2 of note 2, cancel period before 1, State, 2, Treasury.

502 Cancel period at end of line 1, after "mediæval."

595.72 Cancel "See also 632, Pests." (*See* Additions, 595.7.)

595.76 Cancel "etc." after "Beetles."

614.8 Note, for 614.66 read 613.66.

616.35. "Rectum" should be indented as in 611.35.

812.32 For Matthews read Mathews.

922.9 Note, for 922.1–922.8 read 922.1–922.7.

944.39 For Meurtha read Meurthe.

944.45 For Franche Comte read Franche Comté.

972.82 For Balize read Belize.

972.98 For Barbadoes read Barbados.

974.721 Underscore Long Island to show that it should be black-faced type.

978.3 Insert South before Dakota, and add note "Including works on Dakota as a whole."

994.1 For West read Western.

Additions in tables

Add the words printed in roman type. Words in italics are quoted from the tables to show connection only. Open the classification at the number given, and write the words in roman type at the end of the line or in the connection shown by the words in italic type. If in doubt, write to the author for fuller explanation.

191.4 *Hickock, 1798*–1888.

191.7 *Bowen, 1811*–90.

206 General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc., here, but their publications of course go with subject.

207 Divided like 940–99.

229.7 *Maccabees, 1, 2, 3,* 4.

242.1 Thomas à Kempis.

256 Local societies. Discussion of desirability of such work. For general societies see 206 and 267.

267 General societies demanding of members active personal work. For local societies see 256. For Bible, tract, and similar general societies see 206.

308 Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

331.82 See also 614.8, Protection of life.
378.13 University extension.
378.4–9 *Table for school and college publications*
M *Faculty (as a body). Publications. Regulations.* Certificates for admission.
520.1 *Astrology*, see 133.5.
537.87 See also 615.84.
553 See also 622.
553.64 See also 631.
594.3 *Gastropoda. Univalves.* Snails. Slugs. See also 632, Pests.
595.1 See also 632, Pests.
595.4 *Arachnida. Spiders. Scorpions.* Mites. See also 632, Pests.
595.6 See also 632, Pests.
595.7 See also 632, Pests.
595.71 *Thysanura.* Bristle-tails, spring-tails, etc.
595.73 *Pseudoneuroptera.* Dragon flies.
595.74 *Neuroptera.* Caddice flies, etc. Cancel Dragon flies.
595.75 *Rhynchota* (Hemiptera). *Bugs, etc.*
607 Divided like 940–99.
610.71, Medical schools; .72, Medical education of women; .73, Training schools for nurses; .77, Medical museums.
622 See also 338.2, Mining products.
630 .2, Compends; .3, Dictionaries, cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .9, History, divided like 930–99.
673 See also 739.
811.08 Collections.
811.42 *Hayne, 1831–86*
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813.26 *Neal, 1793–1876*
817.35 *Saxe, 1816–87*
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821.83 *Browning, 1812–89*
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943.083 *William I 1871–88*; 4, Frederick 1888; William II 1888–
944.08 *Grévy 1879–87*; Sadi-Carnot 1887–
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973.3 *Revolution and confederation.* Divided like 973.7
973.8 *Cleveland 1885–89*; Harrison 1889–
974.754 *Clinton*, Lake Champlain.

Changes in tables

595.73 Dragon flies, *changed from* 595.74
610.77 Medical museums, *changed from* 610.7

Index corrections and additions

Go thru this list and correct the Index of your copy with a pen, making the numbers agree with the list below.

If the Index has ever been used without reference to the tables, the cards and shelf list must be lookt at under each of these numbers to see that no wrong class numbers have been assignd because of these misprints.

The words underlined are now wrongly printed in black type in the Index. Mark a cross against each, to indicate "not subdivided in tables."

Words printed in black type are now wrongly printed in roman type in the Index. Underscore each in ink to indicate "subdivided in tables."

Words neither underlined nor printed in black type are correctly printed in Index and are given here merely to show connection.

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